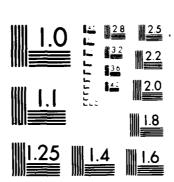
ARMY QUARTERMASTER SCHOOL FORT LEE VA F/6 5/9 EVALUATION OF LEARNING STRATEGIES TRAINING PROGRAM 94810 FORT L--ETC(U) NOV 81 C E CAVERT. J A SHTOGREN AD-A115 085 UNCLASSIFIED NL L m 3 411 A 1 508 h



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FINAL REPORT

EVALUATION OF LEARNING STRATEGIES TRAINING PROGRAM

94B10

Fort Lee, Virginia

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Delivery Order 0090

Submitted by

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30 November 1981

82 06 01 113

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM				
REPORT NUMBER 2. GOVT ACCESSION NO. AD-A115 085	3. RECIPIENT'S CATALOG NUMBER				
Evaluation of Learning Strategies Training	5. TYPE OF REPORT & PERIOD COVERED Final				
Program - 94B10 (Ft Lee, VA) (Final Report)	6. PERFORMING ORG. REPORT NUMBER Delivery Order No. 0090				
C. Edward Cavert, John A. Shtogren	8. CONTRACT OR GRANT NUMBER(*)				
PERFORMING ORGANIZATION NAME AND ADDRESS	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS				
Training Developments Institute ATTN: ATTG-DOR Fort Monroe VA 23651	12. REPORT DATE NOV 81 13. NUMBER OF PAGES 257				
Fort Monroe, VA 23651 4. MONITORING AGENCY NAME & ADDRESS(II dillerent from Controlling Office) US Army Research Office Battelle Columbus Laboratories	15. SECURITY CLASS. (of this report) Unclassified				
P.O. Box 12211 Research Triangle Park, NC 27709	15a, DECLASSIFICATION/DOWNGRADING SCHEDULE				

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Learning Strategies

Institute for Curriculum and Instruction (ICI)

94B10 Course

Self-Paced Group

Basic Skills Education Program (BSEP)

Cooking Skills Life Coping Skills Cognative Skills

20. ABSTRACT (Continue on reverse state it recessary and identity by block number) The primary purpose of the learning strategies evaluation was to provide a statistical verification of the ICI learning strategies training program to make a determination of its possible applicability to a wider base of Army training. It was designed to demonstrate that entry-level student cooks can learn fundamental cooking skills more proficiently than student cooks receiving conventional self-paced training The views, opinions, and/or findings contained in this report are those of the authors and should not be construed as an official Department of the Army position, policy, or decision, unless so designated by other documentation

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Qualifying Note:

Report addresses a prototype test of commerical curriculum, curriculum development, delivery and modification techniques applied under less than favorable, fully controlled evaluation circumstances in order to ascertain if immediate, large scale developmental tests should be undertaken in light of potential program costs. Additionally, early anecdotal insites concerning tested program adaptability in a military delivery context were to be acquired. Conclusions drawn in these circumstances and reported herewith should not be concluded as a fair appraisal of the curriculum and are indeed tendencious.

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EVALUATION OF LEARING STRATEGIES TRAINING PROGRAM

94Bl0 Fort Lee, Virginia

FINAL REPORT

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ACIGIOWLEDGMENTS

The authors express their appreciation for the assistance provided by Quartermaster School personnel, in particular, Major J.J. Bannister, SFC T. Gould, SFC J.C. Moore, SFC O Posser, and SSG I. Oleman. Their extreme dedication and professionalism were major factors in the success of this evaluation effort.

EXECUTIVE SUMMARY

This report concerns the evaluation of a learning strategies effort designed to demonstrate that entry-level student cooks could learn fundamental cooking skills more proficiently than student cooks receiving conventional self-paced training used at Fort Lee. Beginning in April 1981 selected personnel of the Subsistence and Food Service Department, United States Army Quartermaster School, Fort Lee, Virginia received training in learning strategies from the Institute for Curriculum and Instruction. Subsequently these personnel implemented the learning strategies into their presentation of the content of the initial phase of the course for 94B10.

During the period July - September 1981 over fifty students in 94B10 received training incorporating learning strategies. Concurrently a comparable group of students received conventional self-paced training. External evaluators were asked to gather and analyze data en the performance of each group. Both groups were evaluated along several dimensions: 1) quality of food items prepared; 2) adherence to prescribed procedures; 3) indicators of their confidence/attitude when performing tasks; 4) proficiency in cooking skills; 5) knowledge of garrison equipment; and 6) ability to convert recipes to various troop size requirements.

The data gathered on students receiving learning-strategy based training and conventional self-paced training were analyzed according to procedures and standards typically used to determine the impact of training innovations. No statistically significant differences were found between the groups in food item quality, cooking skills, or recipe conversion. Students receiving learning-strategy based training showed statistically higher scores on adherence to procedures, confidence, and knowledge of garrison equipment. TRADOC must decide if these statistical differences have practical significance for adopting a learning-strategies approach to training. In addition, an effort should be made to determine if results in some areas could be accounted for by deficiencies in conventional self-paced training materials used at Fort Lee rather than the superiority of learning-strategies based training.

OVERVIEW LEARNING STRATEGIES PROJECT EVALUATION

Background

The Armed Forces continue to face difficulties in preparing and maintaining troops at an adequate level of readiness. This is due in part to the restricted learning ability of those currently volunteering for military service. At a time when weapons and support systems are becoming increasingly complex, recruits are entering military training less and less prepared to acquire the necessary knowledge, skills, and abilities.

As part of an overall effort to provide trainees with basic skills, learning strategies are being considered as a means of upgrading trainee performance. Learning strategies, broadly defined, are designed to help a student become a better learner while learning. In other words, learning strategies promote skill building for students in the general process of learning at the same time they are learning content in a specific course of instruction. Student self-awareness as a learner is a key factor.

Classroom instructors are often the means by which learning strategies are conveyed to students. They develop lesson plans around learning strategy principles which focus student attention on learning as it is taking place. A heavy emphasis is placed on the use of questions which force a student to analyse his or her learning activities. The goal is for this instructor-induced awareness to be internalized

by students and become a permanent part of their learning repertoire.

Learning Strategies Experiment

TRADOC and the Quartermaster School, Fort Lee, contracted with the Institute for Curriculum and Instruction (ICI) for a demonstration project in learning strategies. The project called for training QMS instructors from the Subsistence and Food Service Department to implement ICI's approach to learning strategies in the initial phases of the course for 94B10. The contract called for each instructor to receive fifteen days of training from ICI. The training was provided in April-July 1981. Subsequently, the instructors incorporated learning strategies into their presentation of selected skills in 94B10.

The utilization of a learning-strategies approach was expected to have a significant impact in a number of areas. Students receiving training from instructors trained by ICI were expected to outperform their counterparts receiving the more conventionally-used self-paced training at Fort Lee in six areas of small quantity cooking, baking, and garrison equipment:

- 1. Quality of food items prepared.
- 2. Adherence to prescribed procedures.
- 3. Confidence in performing tasks.
- 4. Proficiency in cooking skills.
- 5. Knowledge of garrison equipment.
- 6. Ability in recipe conversion.

TRADOC, QMS, and ICI agreed that the project evaluation would be based on the significant differences, if any, between the performance of students trained from lesson plans which incorporated the use of

ICI's strategies and students trained from plans and methods used in the current program.

Project Evaluation

In order to objectively assess the impact of ICI's work with QMS instructors, two external evaluators were sought to examine the performance of students receiving learning-strategies based training. The individuals were required to be "thoroughly familiar with state-of-the-art evaluation and evaluation techniques . . . (and with) experience both in the theory and application of statistics and in working with the Army." Based on these requirements, Dr. C. Edward Cavert and Dr. John A. Shtogren were asked to conduct the project evaluation.

The primary objective of the evaluation was to provide a statistical verification of the ICI learning strategies training program so a determination could be made of its possible applicability to a wider base of Army training. It was anticipated that the evaluators would be engaged in five specific tasks while accomplishing the primary objective. They were asked to:

- 1. Develop a set of evaluation instruments for collecting data on the performance of students who have received ICI learning strategies training as part of their curriculum in the 94B10 course.
- 2. Administer the instruments to trainees, on-site, as part of their performance testing within the 94Bl0 course.
- 3. Compile all relevant data on designated experimental groups of trainees and all designated control groups of trainees.

- 4. Provide a final report on the total evaluation results of the ICI learning strategies training program as evidenced by student performance on tasks within the 94Bl0 curriculum.
- 5. Compare evaluation results of 94BlO with similar data from Fort Jackson, South Carolina and Homestead AFB, Florida.

The following sections of this report provide detailed information on how these tasks were accomplished. The second section describes the activities related to data collection. Supporting documentation for these activities is contained in Appendix A. The third and fourth sections present the results of student performance and conclusions derived from these data. The tabulated data from which the conclusions were drawn are contained in Appendix B.

Part II

EVALUATION ACTIVITIES

Design and Procedures

The evaluators joined the Learning Strategies Experiment at a point when TRADOC, QMS, and ICI had reached mutual agreement on an evaluation design and related procedures. All parties, however, were open to modify these plans based on the evaluators' review. After an in-depth review of the plan, the evaluators agreed on its essential soundness. Key features of the plan included the following:

- 1. Students entering training at the same time would be randomly assigned to two groups: an experimental group receiving learning strategies training (ICI Group) and a control group receiving the more conventionally used self-paced training at Fort Lee (Self-Paced Group).
- Data would be collected on student performance, student reaction to training, and their perceptions of their own proficiency.
- 3. QMS personnel from outside the experiment (not the evaluators) would serve as raters to collect data on student performance because of the expertise required to assess culinary skills and abilities.
- 4. The evaluators would insure that QMS personnel would use the same criteria and standards when assessing results, procedures,

and confidence/attitude indicators relating to food items, skills, equipment, and recipe conversion.

5. Data on instructor reaction to training students in learning strategies would be collected.

Data collection would take place over a five-day period. Students in two different cycles of training would be assessed. Thirty or more students trained with learning strategies methods and a similar group of students trained by conventional methods would be assessed. (For additional information on the initial evaluation design and procedures see pages Al-A6 in Appendix A.)

Rater Orientation

Prior to the actual data collection the evaluators met with QMS raters to familiarize them with the criteria and forms to be used during the evaluation. The raters conducted trial runs on students from outside either test group who had recently completed training in a 94Bl0 course. They assessed them in each of the areas of concern to the experiment. Subsequently, the raters and the project evaluators discussed the ratings of each individual rater, and how they were derived. By the end of this orientation the Chief of the Culinary Skills Division confirmed that the raters had reached a level of inter-rater reliability comparable to those who judge culinary contests throughout the Armed Forces.

Data Collection

The data were collected in two phases. In Phase I students were assessed in small quantity cooking, small quantity baking, and cooking

skills. Assessment was made of the quality of food items, adherence to procedures, level of confidence, and general cooking ability. Data in these areas were collected during a three-day period. In Phase II, students were assessed in the inspection, operation, and cleaning of garrison equipment, recipe conversion, and their reaction to training and perceptions of their own skills. Data in these areas were collected during a two-day period a week following Phase I of the evaluation.

Data were collected from two complete cycles of training to involve a sufficient number of students to make valid statistical comparisons between experimental (ICI) and control (Self-Paced) groups. As described below, the same activities were conducted during both cycles of training.

Phase I -- Day 1

Two laboratories were outfitted to accomodate students in the experimental (ICI) and control (Self-Paced) groups. Students were assigned identification numbers and interspersed at work stations so that the raters would not know to which group they belonged. The students were informed that they would be preparing a variety of food items which would be judged but the ratings would not affect their progress in the course. (See page A-8, Appendix A for directions given to students.)

Two raters were assigned to each laboratory and were given responsibility for assessing the performance of one-half the students.

Each rater asked students a series of questions designed to test knowledge of proper methods. As each student prepared a salad, soup,

vegetable, and main dish, the raters observed how they met these 11 criteria on procedures:

- 1. Washed hands.
- 2. Read complete recipe.
- 3. Checked equipment to be used.
- 4. Assembled all needed utensils.
- 5. Assembled all needed ingredients.
- 6. Followed the recipe procedures, step by step.
- 7. Used proper procedures to maintain sanitation and safety.
- 8. Prepared food item without waste.
- 9. Performed each cooking skill properly.
- 10. Used "clean as you go" procedures.
- 11. Cleaned self/utensils/work area after completion of the task.

The raters used a scale of 0-4 to rate each listed criterion: 0 indicated the student did not do (NOGO); 1 indicated the student did but not minimally acceptable (NOGO); 2 indicated done at minimum acceptable level of performance (MALP); 3 indicated done above MALP but not to desired level of performance (DLP); and 4 indicated done at DLP for given conditions. (Rating scale used and questions asked are on page A-9 and A-10, Appendix A.)

At the same time the raters observed indicators of the student's confidence/attitude according to these 5 criteria:

- Proceeded with the task without false starts or trial/error activity.
- Attended to own actions and did not look to others for help or guidance.
- Stayed focused on the task and did not create or participate in irrelevant conversation or activity.

- When difficulties arose, remained "cool under fire" and took actions to overcome them.
- 5. Showed concern for quality by checking results of actions as he/she progressed through the preparation tasks.

Raters used a scale of 0-4 to rate each criterion: '0 indicated the student did not do (NOGO); l indicated done, but not minimally acceptable (NOGO); 2 indicated done at minimum acceptable level of performance (MALP); 3 indicated done above MALP but not to desired level of performance (DLP); and 4 indicated done at DLP for given conditions. (Rating scale used is on page A-11, Appendix A.)

When a student completed a food item, it was placed on a separate judging table. Each item prepared was rated for these criteria: taste/flavor, appearance, texture/consistency, and garnish when appropriate. The same 0-4 rating scale used to evaluate procedures and confidence was applied to each criterion in judging the completed food item. To insure rater objectivity and equity, food items were identified by student number and only two of each student's four food items were judged by each rater. The evaluators monitored these procedures. (For further information on the specific food items prepared, and the criteria used to judge, see pages Al3-A28, Appendix A.)

Phase I -- Day 2

The second day focused on small quantity baking. Again, students were rated on procedures, confidence/attitude indicators, and completed food items with the only major change being the menu itself. (See pages

A29-A39 for the small quantity baking menu items and the criteria used to judge them.) The raters, however, exchanged laboratories to minimize the possibility of bias. Thus, each student had different food items judged by each of the four raters and was judged on procedures and confidence by two raters during the first two days of evaluation.

Phase I -- Day 3

The third day was devoted to assessing cooking skills. Each student was required to demonstrate his or her proficiency in using a knife to shred, dice, slice, and cut. Each was also assessed in the skills required to prepare a brown roux. Each rater judged the performance of two students simultaneously, using these criteria:

- 1. Finely shredded fresh cabbage.
- 2. Diced fresh sweet pepper (1/2 inch).
- 3. Sliced fresh pared cucumber (1/8 inch).
- 4. Cutting tomato wedges (8).
- 5. Making a brown roux.

Raters used a scale of 0-4 to rate each listed criterion: 0 indicated the student did not do (NOGO); l indicated it was done but not minimally acceptable (NOGO); 2 indicated it was done but only minimally acceptable (MALP); 3 indicated it was done above MALP; and 4 indicated it was done at desired level for given conditions (DLP). (For further information on directions to students and cooking skills criteria, standards, and rating sheets, see pages A41-A52, Appendix A.)

Between the two phases of evaluation, both the experimental (ICI) and control (Self-Paced) groups received training in garrison equipment and recipe conversion.

Phase II -- Day 1

At the beginning of the first day of Phase II all students were given a 40-minute written problem to test their ability to convert recipes to smaller or larger amounts of ingredients than given on recipe cards. Their tests were graded by the raters at the end of the day. (For further information on directions to students, worksheets, tasks, and test criteria and standards for recipe conversion see pages A53-A60, Appendix A.)

The remainder of the day was used to test student knowledge of garrison equipment. Each of four raters was assigned to a different piece of equipment and rated individual students for knowledge of how to inspect, operate, and clean the equipment. Each rater used a standard list of questions to elicit responses from trainees (see Appendix A, page A-63). By the end of the day, each student had been rated on one piece of equipment against these 15 criteria:

- 1. Checked equipment before starting to operate it.
- 2. Explained purpose for checking.
- 3. Observed all necessary safety precautions before operating.
- 4. Explained importance of safety precautions.
- 5. Took the proper actions to start the equipment.
- 6. Took the proper actions to operate the equipment.
- 7. Explained starting and operating procedures.
- 8. Took the proper actions to stop the operation.
- 9. Explained procedure for stopping the operation.

- 10. Took proper actions to disassemble equipment for cleaning.
- 11. Explained disassembling procedure.
- 12. Took proper actions to clean equipment.
- 13. Explained cleaning procedure.
- 14. Took proper actions to assemble equipment.
- 15. Explained assembling procedure.

Raters used a scale of 0-4 to rate each criterion: 0 indicated the student did not do (NOGO); 1 indicated done but not minimally acceptable (NOGO); 2 indicated done at minimum acceptable level of performance (NALP): 3 indicated done above MALP but not to desired level (DLP); and 4 indicated done at DLP for given conditions. (For further information on directions to students, equipment descriptions, question sequence, criteria and standards, see pages A61-A96, Appendix A.)

Phase II -- Day 2

The second day of Phase II was used for the most part to gather more information on student performance with garrison equipment. Four different pieces of equipment were used the second day to test students using the same methods and criteria used the previous day. By the end of the day, each student had been rated on a second piece of equipment.

Also collected were student reactions on the training they had received in the 94B10 course to date, and how each student perceived his/her own proficiency as a result of that training. A written survey was used to gather their views in the 16 areas of task competency and 13 aspects of training. Task competency ratings would allow for comparisons to be made of self-perceptions of proficiency between experimental (ICI) and control (Self-Paced) groups and between student self-

perceptions and those of the raters. Aspects of training ratings would allow for comparisons to be made between groups on a variety of factors which may affect subsequent student performance. (See pages A97-A100 in Appendix A for the survey.)

Since neither the raters nor the evaluators had any official contact with the instructors for the ICI group or those for the Self-Paced group, Instructor Reaction Surveys were to be administered by supervisory personnel of the Subsistence and Food Service Department, and given to the evaluators for tabulation and analysis. (See pages AlOl-AlO4 for the Instructors' Reaction Survey.)

Part III

RESULTS

The data collected during the evaluation following the design and procedures are presented in Appendix B. Tabulations of these data are presented in three sections: first, combined tabulations for both cycles of the evaluation; second, for those troops entering training 15 July 1981 as Cycle 1; and third, for troops starting training 19 August 1981 as Cycle 2. Data are presented in detail in Appendix B so that the results reported in this section can be verified and additional hypotheses of interest, which are beyone the scope of this study, can be tested.

Data are tabulated in Appendix B to show: 1) the distribution of students in each group who were rated at the desired level of performance (DLP), at or above the minimum acceptable level of performance (MALP), or those who were rated below the MALP and who were given NOGO;

2) the frequency of scores of each group on the 0-4 rating scale used in evaluation; and 3) the average scores on each measure taken. Data are tabulated to show ratings for items, tasks, and criteria. Further study of these data could reveal individual strengths or weaknesses in either group in specific skills required to prepare different food items, perform different tasks, or work with different pieces of equipment.

There were nine questions of primary interest pursued in the data analysis concerning students receiving the two types of training: that using ICI learning strategies in the experimental group; and self-paced instruction, more conventionally used in training for this NOS at Fort Lee.

Was student performance in the experimental (ICI) group and in the control (Self-Paced) groups:

- 1. Similar in demographic characteristics and aptitude?
- 2. Different in the quality of food items they prepared?
- 3. Different in the ability to follow procedures?
- 4. Different in the indicators of confidence/attitude they displayed?
- 5. Different in proficiency in cooking skills?
- 6. Different in ability to convert recipes?
- 7. Different in knowledge of garrison equipment?
- 8. Different in their self-perceptions of task competency?
- 9. Different in their views of the training received?

Statistically valid answers to these thestichs can provide a reasonable basis for assessing the impact of leadering strategies-based training and used in review and decision making by TRADOC, QMS, and ICI.

Student Characteristics

In order for valid comparisons to be made between training types, the students in both the experimental (ICI) and control (Self-Paced) groups had to be sufficiently similar to insure that variance in individual characteristics did not influence the results. A table of random numbers was used to assign students to each group for training and further analysis was conducted to verify this procedure did indeed insure similarities between groups.

The groups in each cycle were compared in terms of age, educational level, and the 12 scores on aptitude battery tests. A T-test was used to determine differences at the .05 level of probability. In other

words, for a difference to be considered statistically significant it could only occur by chance 5 times out of 100.

Overall, the results indicated no significant difference between the student characteristics of the experimental (ICI) and control (Self-Paced) groups.

Only one of the twenty-four measures, the Skills Technical (ST) scores for students in Cycle 1 indicated a significant difference. There the average scores were 89.9 for the experimental group and 97.1 for the control group. Given the number of measures taken at the .05 level of probability this variation is not surprising. The experimental and control groups, therefore, for both cycles were seen to be sufficiently similar for evaluative purposes. (Data on student characteristics are found in Appendix B, pages 10, 56-57, and 94-95.)

Food Items -- Small Quantity Cooking and Baking

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The first measure of student performance was the quality of food items prepared by students in the experimental (ICI) and control (Self-Paced) groups. A multi-variate analysis of variance was used to determine significant differences within each cycle and for data combined from both cycles. The .05 level of probability was again used as a standard of significance.

The results indicated no significant differences between the quality of the food items prepared by the experimental and control groups.

This result was true for the quality of food items for each cycle and for both cycles combined. (Data on food item ratings are

in Appendix B on pages 6, 24-25, 62-63, and 100-101.)

Procedures

The second measure of student performance was the degree to which the students in each group followed prescribed procedures while preparing food items. A multi-variate analysis of variance was used to assess differences at the .05 level of phobability for significance.

Overall, students in the experimental group showed a higher level of adherence to procedures than those in the control group.

The combined ratings for the experimental groups in each cycle show a 2.6 mean score and 64.2% of possible compared to the control groups' 2.4 mean score and 60.4% of possible. It should be noted that the procedure scores from Cycle 1 accounted for this difference. (2.7 and 68.6% versus 2.5 and 63.1%) These scores were sufficiently different to outweigh the fact that no statistically significant differences in procedure ratings were evident in Cycle 2 (2.4 and 59.6% versus 2.3 and 57.7%). (Data on procedure ratings are found in Appendix B on pages 34, 64, and 102.)

Confidence/Attitude Indicators

The third measure of student performance was the level of confidence displayed by students in each group. A multi-variate analysis of variance was used to assess significant differences at the .05 level of probability.

Overall, students in the experimental group showed a significantly higher level of confidence than those in the control group.

The combined ratings for the ICI experimental groups in each cycle show a 2.8 mean score and a 70.3% of possible compared to the Self-Paced control groups' 2.5 mean score and 63.4% of possible. As with the previous measure, confidence scores from Cycle 1 accounted for this difference (2.9 and 72.7% versus 2.6 and 65.3%). Cycle 1 scores were sufficiently different to outweigh the fact that no statistically significant difference in the level of confidence between the two groups was found in Cycle 2 (2.7 and 67.7% versus 2.5 and 62.9%). (Data on confidence/attitude indicator ratings are in Appendix B, pages 35, 65, and 103.)

Cooking Skills

The fourth measure of student performance was the level of cooking skills demonstrated by students in each group. Again, a multi-variate analysis of variance was used to assess significant differences at the .05 level of probability.

The results indicated no significant difference between the level of cooking skills demonstrated by students in each group.

This lack of significant difference in skills performance was apparent in each cycle and when both cycles were combined. (Data on cooking skills ratings are in Appendix B, pages 36. 65, and 103.)

Recipe Conversion

The fourth measure of student performance was the students' ability to convert recipe ingredients as required by troop size. It should be noted that scores were so uniformly poor in this area that the original

standards had to be abandoned to provide a measurable amount of data.

A T-test was used to ascertain significant differences at the .05 level of probability.

The results indicated no significant difference in the ability to convert recipes between the experimental and control groups.

No significant differences were found in either cycle or when the data from each cycle were combined. (Data on recipe conversion scores are in Appendix B, pages 30, 88, and 126.)

Garrison Equipment

The fifth and final measure of student performance was the level of knowledge about the function and operation of a variety of pieces of garrison equipment. An attempt to discriminate significant differences between the experimental (ICI) and control (Self-Paced) groups was done using a T-test at the .05 level of probability.

Overall, students in the experimental group showed a significantly higher level of knowledge of garrison equipment than those in the control group.

Combined scores as well as scores in each cycle indicated a superior knowledge of garrison equipment on the part of the students receiving learning strategies-based training. (Data on garrison equipment ratings are in Appendix B, pages 37-39, 84-87, and 122-125.)

Student Reactions--Task Competency

The sixth measure was not one of student performance but one of the student's opinion of his or her ability to perform. It can be

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viewed as a measure of the student's opinion of how well the training received to date had prepared him or her to function in a cooking facility. A comparison of student reactions was made by analyzing the proportion of superior mean scores for each group on each of forty-five items and calculating, at the .05 level, the probability that the proportion could be found by chance if the groups were in fact the same. This technique helps avoid the situation where a few items with exceptionally high or low scores skew the results.

Overall, the results indicated no significant difference between each group's self-perception of task correctency.

Students in the experimental (ICI) group in Cycle 1 scored significantly higher (2.6 versus 2.2) than students in the control (Self-Paced) group but Cycle 2 scores (2.5 versus 2.4) dissipated the initial significant differences. (Data on student reactions to task competencies are in Appendix A, pages 42-43, 90, and 128.)

Student Reactions -- Training Program

The seventh measure was the student's rating of various aspects of training. They were not asked to make value judgments about its quality or to indicate their satisfaction, only to indicate the frequency of occurrence of various events. Ten of the thirteen aspects rated by students could be used to make unbiased comparisons between the two types of training (ICI and Self-Paced). As in the student reaction to task competencies, the proportion of superior mean scores in each group was analyzed as to the probability of it occurring in groups which were in fact similar.

The results indicated no significant difference between each group's view of the training received.

No differences were found within combined data or in each cycle.

(Data on the students reaction to the training are in Appendix B, pages 44-45, 91, and 129.)

Instructor Reaction Surveys

No data from reactions surveys completed by instructors of both the ICI and the Self-Paced group in either cycle were given to the evaluators to analyze.

Comparison with Other Experiments

Similar experiments in the use of learning strategies-based training programs were being conducted at Fort Dix, Fort Jackson, and Homestead Air Force Base. At the time of the completion of this report there was not sufficient data available from any of these other locations to permit comparisons to be made.

Summary

The statistical analyses of student performance between the experimental group receiving learning strategies-based training and the control groups receiving the more conventionally-used self-paced training at Port Lee indicated superior performance by the experimental group in three of six areas -- adherence to procedures, level of confidence, and knowledge of garrison equipment. No significant differences were found in the quality of food items, cooking skills, and recipe conversion.

By the students own report they did not view their task competency or the training received significantly different in either group. It should be noted that much of the superior performance shown by the experimental group in the three areas was done in Cycle 1. This higher level of performance demonstrated by students who were the first to receive learning strategies-based training was corroborated by the differences in perceptions of task competency between Cycle 1 and Cycle 2 experimental groups.

PART IV CONCLUSIONS

The focus of the final section of this report is on the evaluators' conclusions rather than recommendations. Even with data on student performance, the evaluators are not in a position to definitively advise TRADOC on the continuation or discontinuation of learning strategies-based training. To do so would require additional data from a cost-benefit perspective—the costs of training instructors and whether or not there will be any long term positive impact on field performance or morale for those students whose performance was rated higher in certain areas.

Even with their limited perspective, however, the evaluators must raise several issues that contribute to a substantial reservation about the continuation of learning strategy-based training as conducted at the Quartermaster School, Fort Lee, Virginia. Again, this is not to question the overall concept of learning strategies, but the value of this approach as a training innovation used during the first two weeks of training as done in 94B10.

Statistical and Practical Differences

As described in the previous section, the experimental group (trained by instructors using learning strategies techniques) were rated significantly higher than the control group (receiving the conventional self-paced instruction at Fort Lee) in three of six areas: procedures, confidence, and knowledge of garrison equipment. Although there was a statistically significant superiority in each area,

procedures and confidence ratings were higher by four percent and seven percent respectively. The question that TRADOC must address here is whether or not the cost of the training innovation has a practical value. In the eyes of the evaluators, the difference in scores in these two areas appears to have little practical significance.

It should also be pointed out that the proportion of students in either group receiving NOGO on performance, or ratings just at the minimum acceptable level was almost alarming. The highest ratings achieved at the desired level of performance was 32.3% of the students in the experimental (ICI) group from Cycle 1, with the mode score closer to five percent. (See Appendix B, pages Bl4-Bl8.) One can conclude that the training program for either group may well be inadequate at this stage of the course to prepare soldiers to perform in the field.

Experimental Superiority or Conventional Shortcomings

The area of greatest superiority was shown by the experimental (ICI) group in their knowledge of garrison equipment. Their ratings were over twenty percent higher than the control (Self-Paced) group's ratings.

There is some question whether this result should be attributed to the strengths of the learning strategies training or to weaknesses of self-paced training. The experimental group's training required them to be conversant with the equipment—they practiced fielding questions from their instructors and describing each piece of equipment to each other. Control group students passivly watched video tapes on the same topics, frequently under strict military discipline. Thus, it would be expected that students in the experimental group would be more adept at answering questions when confronted by the raters.

Hawthorne Effect

As noted in the previous section, the experimental group's superiority in procedures and confidence was largely a function of the performance of the students in the first cycle. This superiority of first cycle learning-strategies-trained students was also reflected in their self-perceptions of task competencies.

At issue here is whether the superior performance of the experimental group in procedures and confidence was a function of the particular kind of training they received or simply that they were being treated differently. It appears that the special attention given to the experimental group may have been a significant causal factor. It should be noted that ICI staff were present and visible during Cycle 1 training only. The personal attention ICI gave directly to QMS instructors and indirectly to experimental group students may have been a substantial motivating force; a force that was not sustained in their absence during Cycle 2.

Summary

Students in learning strategies-based training showed statistically superior performance in three of the six areas considered important by all parties. In the evaluators opinion, even these differences do not indicate conclusively the superiority of the innovation for the following reasons: 1) mathematical differences in procedures and confidence are relatively minor in practical terms; 2) superior performance in garrison equipment may be accounted for by the fact that self-paced training did not minimally prepare control group students to

perform during evaluation; and 3) differences between Cycle 1 and Cycle 2 experimental group student performance casts doubt on whether superiority in any area can be maintained without ICI's direct intervention. Based on these observations, the evaluators have serious reservations about the value of learning-strategies based training as assessed in 94B10 at the Quartermaster School at Fort Lee, Virginia.

Evaluation
Learning Strategies Training Program
94B10
Fort Lee Virginia

APPENDIX A

EVALUATION DESIGN AND PROCEDURES

EVALUATION DESIGN FOR ADVANCED INDIVIDUAL TRAINING 94B10 TEST

- 1. Evaluation/Rating Procedures.
 - a. Two types of data need to be corrected based on:
 - (1) Student performance/knowledge/reactions.
 - (2) Instructor reaction/knowledge of learning
 - b. Students. The following data needs to be collected:
 - (1) Performance of four types of confirmation tasks:
 - (a) Food items.
 - (b) Skills
 - (c) Recipe conversion.
 - (d) Equipment.

Each to be evaluated against:

- (e) Results.
- (f) Procedures.
- (g) Confidence indicators.
- (2) Reaction to training survey: To be completed by all students at end of the test.
 - (3) How this data will be collected:
 - (a) When: Small Q/Bakery/Cooking Skills--July 29/30/31
 Garrison Testing Aug 6/7
 - (b) Second cycle: Course commences 6 Aug 81
 Small Q/Bakery Aug 19/20/21
 Carrison Testing Aug 27/28
 - (c) Where: Bldg T-11531 for Small Q/Baking Garrison Testing, P-9303

Plan that control group will also train in P-9303

- (d) By whom: Recommend one NCO from DOES and those from Subs & Fd Svc Dept as follows:
 - 1. MSG Hannon
 - 2. SFC Moore
 - 3. SFC Posser
 - 4. SSG Oloman
- (e) Requirement: Raters need to assemble for at least 2 days prior to 29 July 81 for purposes of analyzing the confirmation tasks and the confirmation task rating sheets.

2. Focus of Orientation for Raters:

- a. Analysis of confirmation tasks: Familiarization with criteria and procedure charts including a trial run of items to be tested using Rater Reference Sheets on characteristics of food items for practice.
- b. How to use the rating sheets: To include the procedure charts showing rater reference skills for the third day of testing Small Q/Baking techniques.
 - c. By what method will the information be gathered?
 - (1) Small Q/Baking: Confirmation tasks RESULTS/PROCEDURES/CONFIDENCE INDICATORS.
- (a) Issue 1: Results of the task will be observed and rated according to criterion rating sheet.
- (b) Issue 2: Procedures and confidence indicators will be observed while students prepare items. Each appropriate skill to be rated in accordance with criterion rating sheet. Students will be randomly selected within their groups and positioned at stations which make it possible for the raters to observe the ten procedures without knowledge of the test/control student identification.
- (2) Small ()/Baking skills evaluation: The aim is to observe and evaluate the particular cooking skills performance currently taught in the 94B10 POI.
- (a) On day 3, there will be 6 hrs to test. Plan to allow 1 hour per student, that is 45 minutes for actaul performance and 15 minutes for rating consolidation. This will allow for 12 students to be selected for evaluation from each group.
- (b) Each student will be tested in three skills. part of this evaluation will be a test of knowledge during performance. Skills will be selected against the following criterion:
 - 1. Most important
 - 2. Most critical
 - 3. Length of time
- (c) Assessment will be conducted by Raters using criterion rating sheet for knowledge and performance.
- 3. Evaluation of Recipe Conversion Phase.

Each student will be given two recipes to convert. Results and worksheets will be rated in accordance with criterion rating sheets.

- 4. Evaluation of Carrison Equipment Phase.
 - a. Students will be evaluated and rated on confirmation tasks which involve:
 - (1) Inspection(2) Operation

 - (3) Cleaning
- Of two items of equipment selected from the 10 trained by the project evaluator.

- b. The raters will observe what students do and the way they do it and rate their performance, using a criterion check list.
- c. Raters will also interview students during the performance to obtain information about their knowledge of the equipment based on the following system:

- d. Equipments will alternate the next day so that eight out of 10 are evaluated.
- e. Sixteen students will be selected by some criterion from each group to participate in the evaluation.

5. Logistic Requirements.

- a. MSG Anderson will be responsible for the procurement of all food items and equipment items to conduct the test in Bldg T-11531 and P-9303. He may be assisted by MSG Rhea as necessary.
- b. All items of equipment in the Garrison phase will need to be assessed for criterion for evaluation.

6. Student Reaction Survey.

a. A written student reaction survey will be administered by the project evaluator during the garrison equipment test phase which will provide information on student scan of confidence, preparedness and thoughts about the training process, etc.

7. Instructor Participation.

- a. Data to be collected will include:
- (1) Reactions to training students and their role as instructors.
- (2) Administering of a knowledge survey of their understanding of training and learning.
 - b. Survey to be made at conclusion of the test.
- 8. Small Q/Baking Phase Test Items. To include the following items on Day 1.
 - a. Salad Item.
 - (1) Potato Salad M40
 - (2) Waldorf Salad M50

- b. Soup Item;
- (1) Vegetable Soup. P-7
- (2) Chicken Vegetable (Mulligatawny) Soup P-20
- c. Main Dish:
- (1) Baked Macaroni and Cheese F1 (2)
- (2) Chicken Fried Steak L12
- d. Vegetable Item
- (1) Cauliflower au gratin Q18
- (2) French Fried Onions Q35 (2)
- e. Each student will prepare four items to be selected by the project evaluator in accordance with skills to be demonstrated.
 - f. Suggested breakdown of items as follows:

Potato Salad

Vegetable Soup

Baked Macaroni & Cheese
French Fried Onions

Waldorf Salad

Mulligatawny Soup

Chicken Fried Steak

Cauliflower au gratin

- g. Each group will each prepare an even split of menus.
- 9. The following items will be included in the Pastry Evaluation on Day 2.
 - a. Cheese Biscuits D1 (2) (3)
 - b. Blueberry Muffin D30 (1+2)
 - c. Chocolate Cake (9 (1+2)
 - Butter Cream Frosting
 - d. French Toast D-22 or Western Omelette F8 (10)

Items at a, b, & c will be prepared by all students. Items at d will be prepared by half the students in each group.

G39(2)

J. J. BANNISTER

Major, ACC

C, Culinary Skills Div

July 1981

PROCEDURES FOR EVALUATING CONFIRMATION TASKS

Day 1--First Cycle - 29 July 1981 Small Quantity Cooking:

1. Maximum 40 students to be evaluated in two kitchen classroom (Labs) in T-11531.

Determination to be made as to whether two adjoining kitchens are available. If not, then maximum 20 students to be tested, using random selection of 10 students from each group.

2. Food items to be prepared have been established. Twenty or ten students will each prepare the following group of items. They will be alternately placed in the kitchen.

Potato Salad

Waldorf Salad

Vegetable Soup

Mulligatawny Soup

Baked Macaroni Cheese

Chicken Fried Steak

French Fried Onions

Cauliflower au Gratin

- 3. Each food item will be evaluated and rated on completion by one of four raters using the confirmation task rating sheet (food items) together with the Rater's Reference Sheets.
- 4. A row of tables will be set up down the center of each Lab. Students will be identified by a number system which they will wear on their shirts. The corresponding number will be placed on the table.
- 5. A folder containing four confirmation sheets (one for each item) will be placed at each number of the table.
- 6. Each of four raters will evaluate one food product for each student during the test. This means that each student will have been rated once by each rater at the conclusion of the test.
- 7. Additionally the raters will be evaluating procedure, confidence, and attitude indicators, using the confirmation task rating sheets for two students at a time from start to finish of a single product.
- 8. In this way, all students should have been evaluated at least once during the test.
- 9. Raters will have the rating sheets with them on clip boards during this evaluation.

Day 2--First Cycle - 30 July 1981 Small Quantity Baking:

10. Exactly the same procedures to be followed, substituting the following food items to be prepared by all the students:

Cheese Biscuits

Chocolate Cake & Chocolate Frosting

Blueberry Muffins

French Toast or Western Omelette

Day 3--First Cycle - 31 July 1981 Cooking Skills Procedures:

- 11. Each student will be evaluated on performance of three different skills by one rater in a 30-minute period.
- 12. Skills to be evaluated are as follows:
 - a. Preparation and cooking of a brown roux.
 - b. Scaling and measuring ingredients (quantities and items to be decided).
 - c. Knife drills (skills to be decided).
- 13. Raters will use the confirmation task rating sheet (cooking skills) for each task.

Days 4 & 5--First Cycle - 6/7 August 1981 Recipe Conversion and Garrison Equipment Procedures:

- 15. Each student will be given two recipes to convert. Results and work sheets will be rated in accordance with criterion rating sheets.
- 16. A maximum of 16 students will be evaluated and rated on confirmation tasks involving the inspection, operation, and cleaning of two items of equipment from the 10 previously trained.
- 17. The raters will observe what students do and the way they do it and rate their performance, using a criterion check list.
- 18. Raters will also interview students during the performance to obtain information about their knowledge of the equipment.
- 19. It is still to be decided which 2 out of 10 items of equipment will NOT be tested.
- 20. Students will be evaluated in the following sequence:

		R	R	R	K
Cont rol	ICI	Equipment	Equipment	Equipment	Equipment
1-16	1-16	1-5-9-13	2-6-10-14	3-7-11-15	4-8-12-16

21. Equipment will alternate the next day so that 8 out of 10 are evaluated.

REACTION SURVEYS - STUDENTS/INSTRUCTORS

22. Reaction surveys to be administered to each student and instructor involved with the test at the conclusion of the test.

J. J. BANNISTER

Major, ACC

Chief, Culinary Skills Division

L July 1981

CONFIRMATION TASK RATING SHEET--FOOD ITEMS

STUDE	ent's i	NAME/NO:	RATER'S NAME:	
FOOD	ITEM:		DATE:	

Use the rating scale below to rate each listed criterion. Refer to rater's reference sheets for explanation of the criteria. Write remarks in the column labeled REMARKS.

- 0 = Not present (not done), 1 = Present (done) but not minimally acceptable,
- 2 = Present (done) but only minimally acceptable (MALP), 3 = Present (done) above MALP, 4 = Present (done at desired level for given conditions (DLP).

RESULTS		RATING				REMARKS	
Criterion #1Taste/flavor	0	1	2	3	4		
Criterio /2Appearance	0	1	2	3	4	• : •	
Criterion #3Texture//consistancy	0	1	2	3	4		
Criterion #4Garnish	o	1	2	3	4	·	
Criterion #5Time to completion	0	1	2	3	4		
Criterion #6Work area/resources (each confirmation task)							
- Utensils/equipment are clean	0	1	2	3	4		
- Work area is clean and ready for next use	0	1	2	3	4		
Criterion #7Work area/resources (last confirmation task - Utensils, equipment, supplies are returned to pro)						

DIRECTIONS FOR CONFIRMATION TASKS-FOOD ITEMS

The cooking tasks you will be doing today are designed to find out how well you can perform certain cooking procedures and prepare food items similar to those you learned to prepare in the small quantity cooking and baking phase of your training. This review day is to help us find out how well you can prepare food items on your own at this point in your training. We will know what needs to be done to help you become better at preparing tasty, attractive food.

As you prepare the food items, there will be an instructor observing what you do and taking notes. He will also observe the finished product, taste it, and rate it as poor, fair, good, or excellent. The ratings will not affect your progress. You will continue in your training no matter how well you do. These are the directions you are to follow:

- 1. You will prepare the following food items in the order they are listed. The time you have to prepare each item is written after each item. You do not have to wait until one item is completed before starting to prepare the next item. When each is finished to your satisfaction, notify the instructor so the item can be checked.
- 2. You will work at Station # ____. There is a card with that number at the Station.
- 3. All the recipe cards, ingredients, utensils, and equipment you need are at the Station or will be given to you when needed.
- 4. You are not to ask anyone for help. Do the best you can on your own.
- 5. As you prepare each food item, set aside all waste in the container marked WASTE.
- 6. If any part or these directions are unclear, get them answered BEFORE you go to your Station.

CONFIRMATION TASK RATING SHEET--PROCEDURES

RATER'S NAME:		DATE:				
Use the rating scale below to labeled <u>REMARKS</u> .	rate each	listed crit	erion. Write remarks in the column			
0 - Did NOT do		-	above MALP but not to desired level			
l = Did but NOT minimally acce 2 = Did at MALP	eptable	•	erformance (DLP) at DLP for given conditions			
PROCEDURES	STUDENT	RATING	REMARKS			
Criterion #1Washed hands	(1) (2)	0 1 2 3 4 0 1 2 3 4				
Criterion #2Read complete recipe.	(1) (2)	0 1 2 3 4 0 1 2 3 4				
Criterion 3Checked equipment to be used.	(1) (2)	0 1 2 3 4	• • •			
Criterion 4Assembled all needed utensils.	(1) (2)	0 1 2 3 4 0 1 2 3 4				
<u>rerion 5Assembled all</u> needed ingredients.	(1) (2)	0 1 2 3 4 0 1 2 3 4				
Criterion 6Followed the recipe procedures, step by step.	(1) (2)	0 1 2 3 4 0 1 2 3 4				
Criterion 7Used proper pro- cedures to maintain sanita- tion and safety.	(1) (2)	0 1 2 3 4 0 1 2 3 4	·			
Criterion 8Prepared food Item without waste.	(1) (2)	0 1 2 3 4 0 1 2 3 4	·			
Criterion 9Performed each cooking skill properly	(1) (2)	0 1 2 3 4 0 1 2 3 4	·			
Criterion 10Used "clean as you go" procedures.	(1) (2)	0 1 2 3 4 0 1 2 3 4				
Criterion 11Cleaned self/ utensils/work area after completion of task.	(1) (2)	0 1 2 3 4 0 1 2 3 4				

QUESTION SEQUENCE FOR FOOD PREPARATION PROCEDURE WHILE OBSERVING THE STUDENT IN ACTION

۱.	What are you doing?		
2.	What is the reason you're	(Student's action	on)?
3.	Why is that necessary?		·
4.	What should the result look properly?	like if you	(Action)
5.	What are you planning to do	next?	
6.	Why would you want to	(Proposed action	next?
7.	What will you need to	(Proposed action) properly

CONFIRMATION TASK RATING SHEET--CONFIDENCE/ATTITUDE INDICATORS

RATER'S NAME:			DATE:				
	se the rating scale below to a abeled <u>REMARKS</u> .	rate each	listed criteri	lon. Write remarks in the column			
ا ر	 Did NOT do Did but NOT minimally accepted at MALP 	otable	3 = Did above MALP but not to desired level performance (DLP) 4 = Did at DLP for given conditions				
	CONFIDENCE/ATTITUDE INDICATORS	STUDENT	RATING	REMARKS			
	Criterion #1Proceeded with the task without false starts or trial/error activity.	(1) (2)	0 1 2 3 4 0 1 2 3 4				
C	Criterion #2Attended to own actions and did not ok to others for help c guidance.	(1) (2)	0 1 2 3 4 0 1 2 3 4	4 € *			
	Criterion #3Stayed focused on the task and did not create or participate in irrelevant conversation or activity.	(1) (2)	0 1 2 3 4 0 1 2 3 4	·			
	Criterion 4When difficulties arose, remained "cool under fire" and took actions to overcome them.	(1) (2)	0 1 2 3 4 0 1 2 3 4				
	Criterion #5Showed concern for quality by checking results of actions as he/she progressed through the preparation tasks.	(1) (2)	0 1 2 3 4 0 1 2 3 4				

RATER'S REFERENCE SHEET

FOOD ITEM (1)

FOOD ITEM: Potato Salad

RECIPE NO: M40(1)

CHARACTERISTICS OF FINISHED PRODUCT:

1. Taste/Flavor.

- Creamy, potato flavor.
- Seasoned to taste (not flat or overpowering).

2. Appearance.

- Potatoes are evenly diced and white.
- Eggs are hard boiled with a black ring around egg yolk.
- Color is creamy which is spotted with the color of the vegetables.
- All vegetables are well mixed and easily distinguishable.

Texture/Consistency.

- Potatoes are tender but firm (not mealy).
- Vegetables are crunchy.
- Sauce is smooth and of a coating consistency (not runny).

4. Garnish.

- Parsley is finely chopped.
- Paprika and parsley are lightly and evenly sprinkled on top.

*5. Time to Completion:

- a. DLP: 2 Hrs.
- b. MALP: 2 Hrs, 30 Min.

M. SALADS, SALAD DRESSINGS, AND RELISHES No. 40(1) POTATO SALAD

YIELD: 5 Portion	1 3			EACH PORTION: 3/3 Cup
INGREDIENTS	WEIGHTS	MEASURES		METHOD
				1. Trim, wash, and prepare salad vegetables as directed on Recipe Card M-G-1.
Potatoes, white, fresh, diced V2 inch Water	••••	to cover ,		2. Cover potatoes with water; bring to a boil; edd salt; cover. Cook until tender. 3. Drain well. Cool slightly.
Salt	3/4 qz	pinch	• • • • • • • • • • • • • • • • • • • •	
chopped Salad oil			, , , , , , , ,	4. Combine onions, oil, salt, pepper, and vineger. Add to potatoes. Cover; refrigerate 1 hour.
Salt Pepper, black Vinegar	1/4 02.	to taste .		

INGHEDIENTS	WEIGHTS	MEASURES		KETHOD
Culury, Iresh, chopped	2½ oz	10,1	••••	5. Compine pelery, eggs, relish, pimientos, and Selad Pressing; add to
Eggs, hard cooked, chopped		1 ea •	••••	potate mixture. 6. His lightly but thoroughly to coat
Relish, pickle, sweet	3/4 02	,	1	polatoes with Saled Dressing mixture.
Pimientos, canned, drained, chopped (optional)	, .			
Salad Dressing	3 oz			
Parsley, fresh, chopped		pinch		7. Gaspieh with pareley and paprika. 8. Cover; refrigerate until ready to
Paprika, ground		pinch		GOLAG.

RATER'S REFERENCE SHEET

FOOD ITEM (2)

FOOD ITEM: Vegetable Soup

RECIPE NO: P7(1)

CHARACTERISTICS OF FINISHED PRODUCT:

1. Taste/Flavor.

- Beef and vegetable flavor
- Seasoned to taste (not flat or overpowering)
- Slight tang of garlic

2. Appearance.

- Color is a pale reddish brown.
- Vegetables are even in size and easily distinguishable (vegetables should not float on the surface).

3. Texture/Consistency.

- Thin, pouring consistency (unthickened liquid).
- Vegetables are tender but firm.

4. Garnish.

5. Time to Completion.

- a. DLP: 1 Hr, 20 Min.
- b. MALP: 2 Hrs.

P SOUPS No 7(1)

VEGETABLE SOUP

YILLD 5 Postion	6	EACH PORTION: 1 C		
memoraris	WEIGHTS	MEASURES		METHOD
Garbo, dry, mineed		1/2 clove		Sauté garlic and onions in salad oil or shortening until tender. Set aside for
Omons, dry,	Prozesti			use in Step 3.
chopped Salad oil or shortening,	3/4.02	· · · •		
melled		\ 		
· ·	21.314.92	٠		2. Heat stock. Add carrots and celery.
Carrots, frosh, 🦠 🦠	Halos	• • • • • • • • • • • • • • • • • • • •		Bring to a boil. Cover; reduce heat; simmer 15 minutes.
Celery, Iresh, - Dopped	Ра ох			·60

HIGHEDIENTS	WEIGHTS	MEASUR ES		METHOD
Poppars, sweet, Insh, chopped	1/3 az	•		3. Add sauteed garlid—and onions, peppers, potatoes, cabbage, toma-
Potatoes, white, fresh, diced	21, 02	•••		toes, salt, and pepper; bring to a built reduce heat; simmer 30 minutes or
Cabbago, Irosh, chopped	12 02			until vegetables are tender.
Tomatoes, canned, crushed	16 oz			
 Salt		pinch .		
Popper, black	<i>.</i>	plach	<u> </u>	

RATER'S REFERENCE SHEET

FOOD ITEM (3)

FOOD ITEM: Baked Macaroni and Cheese

RECIPE NO: F-1(2)

CHARACTERISTICS OF FINISHED PRODUCT:

- 1. Taste/Flavor.
 - Creamy, cheesy, macaroni flavor (not bland, dry, or sticky)
 - Season to taste (not flat or overpowering)
 - Sauce tastes smooth (not lumpy or floury)
 - Bread crumbs taste buttery and crispy (not soggy or bready)
- 2. Appearance.
 - Color is golden brown on top and cream-yellow underneath
 - Macaroni and sauce are evenly distributed (one is not more predominant than the other)
 - Bread crumbs are evenly distributed on top
- 3. Texture/Consistency.
 - Creamy solid (not runny or stiff)
- 4. Garnish.
- 5. Time to Completion.
 - a. DLP: 75' 90'
 - b. MALP: 120'
- a. Desired level of performance.
- b. Minimum acceptable level of performance.

F. CHEESE AND EGGS No. 1(2)

BAKED MACARONI AND CHEESE

YIELD. 5 Portion	S	_		EACH PORTION: 1 Cup
PAN SIZE:				TEMPERATURE: 350°F.Oven
INGREDIENTS	WEIGHTS	MEASURES		METHOD
Macaroni		15 oz	[, . , , ,]	 Add macaroni slowly to salted water; cook 15 minutes or until tender; stir occasionally to prevent sticking. Drain. Set aside for use in Step 7.
Milk, nonfat, dry Water, warm				3. Beconstitute milk; heat to just below boiling. PO NOT BOIL.
Butter or margarine, melted Fiour, wheat,				4. Blend butter or margarine and flour together; stir until smooth. Add roux to hot milk, stirring constantly.

INGHEDIENTS	WEIGHTS	MEASURES		МЕТНОО
Salt	• • • • • • • • • • • • • • • • • • • •	1/4 tsp., pinch	•••••••	5. Add salt and pepper. Bring mixture to a boil; reduce beat; simmer 5 minutes or until thickened. Stir traquently to prevent scorching.
Cheese, ground	614 020	••		6. Add cheese to seves; stir only until smooth; remove trom heet. 7. Combine seves and macaroni; mix well. 8. Place an equal quantity, about 3% gal, in each well-greesed pan.
Bread crumbs, dry Butter or margarine melted	3/4 oz 1/3 oz			9. Combine breed grumbs and melted butter or maryerine; sprinkle over mixture in each pan- 10. Bake 25 minutes or until brown.

RATER'S REFERENCE SHEET

FOOD ITEM (4)

FOOD ITEM: French Fried Onion Rings

RECIPE NUMBER: Q 35 (2)

CHARACTERISTICS OF FINISHED PRODUCT:

- 1. Taste/Flavor
 - Oniony, crisp
 - Seasoned to taste (not flat or overpowering)

2. Appearance

- Color is golden brown, shell with the onion flesh visible in places
- Onion rings are individual (not stuck together)

Texture/Consistency

- Crispy outer coating with tender but firm onion flesh inside
- 4. Garnish

5. Time to Completion

a. DLP: 30 Minutes

b. MALP: 45 Minutes

Q VEGETABLES No. 35(3)

PRENCH FRIED ONION RINGS

(Flour Method)

YIELD 5 Portion	រន		EACH PORTION: 1 Cup
	~····•		TEMPERATURE: 350°F. Deep Fat
He AGDIEUTS	WEIGHTS	MEASURES	 METHOD
Omons, dry, out into shoos, \$2 meh thick Water, cold			1. Separate onion slices into rings. Cover with cold water. Let stand 10 to 15 minutes. Drain.
	6 ¹ .: oz,.	1/2 tep	 flour, salt, and pepper; shake oil

INCREDIENTS	WEIGHTS	MEASURES	метнор
Milk, nonfat, dry Water, warm	19, 02.	6 oa.	 3. Reconstitute milk; dip floured onion rings into milk. Drain well. 4. Dredge each paion ring in remaining second flour until well coated; shake off excess. 5. Fry 3 minutes of until golden brown. 6. Drein well in besket of on absorbent paper.

NOTE: 1. In Step 1, 22 lb 4 oz dry onions A.P. will yield 20 lb sliced onlone.

2. In Step 3, the ratio of nonfat dry milk to water her hope doubled

VARIATIONS

1. OHION RINGS (FROZEN): Omit Steps 1 through 5. Use 25 lb (5-5 lb pg) frozen breaded onion rings. Fry according to directions on package. Follow Step 6.

EMPURA FRIED ONION RINGS: Follow Step 1. Omit Steps 2 through 4; substitute 2 gal Tempura Batter (Recipe No. D-52) for ingredients. Dip individue) enion rings into batter. In Step 5, drop omen rings gently into 350°F, deep (at; fry approximately) winautes or until golden brown. Follow Step 6.

RATER'S REFERENCE SHEET

FOOD ITEM (5)

FOOD ITEM: Waldorf Salad

RECIPE NO: M50(1)

CHARACTERISTICS OF FINISHED PRODUCT:

1. Taste/Flavor.

- Sauce is smooth and faintly sweetened.
- Apples and celery are crisp and full of flavor.
- Walnuts are crunchy.

2. Appearance.

- Celery and apples are uniform in size, lightly bound with the creamy white sauce.
- Walnuts are coarsely chopped.
- All ingredients are well mixed but easily distinguishable.

3. Texture/Consistency.

- Sauce is of a coating consistency (not runny).
- Apples and celery are fresh and crunchy.

4. Garnish.

- Lettuce is crisp, free from discoloration with excess leaf core removed.

5. Time to Completion.

- a. DLP: 30 Min.
- b. MALP: 45 Min.

M. SALADS, SALAD DRESSINGS, AND RELISHES No. 50(1) WALDORF SALAD

YIELD 5 Portion	15	•		EACH PORTION: 1/2 Cup
INCHEDIENTS	WEIGHTS	MEASURES		METHOD
				1. Trim, wash, and prepare truit and vegetables as directed on Recipe Card M-G-1.
Apples, fresh, eating, unpared, cored, diced 1/2 inch	7 oz		•••••	2. Place diced apples in salted water until ready to mix. Drain well.
Water, cold		3/4 pt, to taste	, , , , , , , , ,	
Celery, fresh, diced, ½-inch	3½ ez			3. Add celery and nuts to drained apples. Toss well.
Walnuts, coarsely chopped	3/4 oz	••••		

			•	
MGREDIENTS	WEIGHTS	MEASURES		METHOD
Waler, warm	to taste	to tastę		6. Add to apple misture tossing well to
Luttucu, fresh, frimmed (optional)	34 oz,,			7. Place 1 lettuce leaf on each serving dish; edd seled. Cover; refrigerate until ready to serve.

NOTE. 1. In Step 1: 10 lb 10 oz fresh eating apples A.P. will yield 9 lb uppered, diced apples.

5 lb 8 oz fresh celery A.P. will yield 4 lb diced celery.

12 oz lemons A.P. (3 lemons) will yield 1/2 cup juice.

4 lb 5 oz fresh lettuce A.P. will yield 1/2 kimmed lettuce.

2. In Step 2, diced apples may be dipped in solution of entiopidant and water to prevent discoluration. Sue Recipe Card A-20.

RATER'S REFERENCE SHEET

FOOD ITEM (6)

FOOD ITEM: Chicken Vegetable (Mulligatawny) Soup

RECIPE NO: P20 (1+2)

CHARACTERISTICS OF FINISHED PRODUCT:

- 1. Taste/Flavor,
 - Spicey, curry flavor but not overpowering
 - Chickeny
 - Vegetables full of individual flavors
- 2. Appearance.
 - Color is a pale yellowish brown.
 - Vegetables and fruits are easily distinguishable when soup is stirred.
- 3. Texture/Consistency.
 - Vegetables are tender but firm (not mushy).
 - Liquid is lightly thickened but still has a pouring consistency.
- 4. Garnish.
- 5. Time to Completion.
 - a. DLP: 1 Hr, 10 Min.
 - b. MALP: 1 Hr, 30 Min.

P SOUPS No. 20(1)

CHICKEN VEGETABLE (MULLIGATAWNY) SOUP

YIIII) 5 Feeting	11.	EACH PORTION: 1 Cup		
मार्क्समा हा।	WHIGHTS	MEASURES		METHOD
Onions, dry, chopped	3/4 02			1. Sauté onions and peppers in butter or margarine until tender. Remove from
Peppera, awaet, frosh, chopped	1½ oz			fat; set aside for use in Step 4.
Butter or margarine	3/4 oz			
Flour, wheat, general purposo,	1/2 02		• • • • • • • • •	2. Blend fat and flour to form a paste.
sifted				•
Stock, chicken, hot		21 pts		3. Add flour mixture to stock, stirring constantly. Cook until blended.

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4

Inchedients	WEIGHTS	MEASURES	МЕТНОР
Tomatoes, canned, crushed	5 uz. ·		 4. Add sauteed onions and peppers, tomatoes, carrots, celery, apples, curry powder, cloves, salt, and
Carrots, Iresh, diced	3/4 -wz····		 pepper. 5. Simmer 45 minutes or until
Colory, fresh, diced	3/4 oz · · · ·	,	 yegetebles ere tender.
Apples, cooking, dreed or sliced	lk oz.	}	 •
Curry powder	1/4 oz		
Cloves, ground	£	to taste.	
Salt		to taste	 *
Popper, black	L .	to tasta.	

RATER'S REFERENCE SHEET

FOOD ITEM (7)

FOOD ITEM: Chicken Fried Steaks

RECIPE NUMBER: L12 (1+2)

CHARACTERISTICS OF FINISHED PRODUCT:

- 1. Taste/Flavor.
 - Beefy flavor
 - Seasoned to taste (not flat or overpowering)
- 2. Appearance.
 - Color is golden brown outer with grayish (well done) meat inside.
 - Steaks are even in size.
 - Evenly coated with flour and bread crumbs.
- 3. Texture/Consistency.
 - Coating is moist and soft.
 - Firm and moist beef.
- 4. Garnish.
- 5. Time to Completion.
 - 2 Hrs, 20 Min. a. DLP:
 - b. MALP: 3 Hrs.

L. MEAT, FISH, AND POULTRY No. 12(1) CHICKEN FRIED STEAKS

Citional Cition of the Cition							
YIELD 5 Portion	es (Pans)			EACH PORTION: 1 Steak			
PAN SIZE 18 by 2	4 meh Roas	iling Pan	TEMPE	RATURE: 350°F. Griddle; 350°F. Oven			
INCHEDIENTS	WEIGHTS MEASURES		·	метнор			
Boot, Braising Steak, Swiss, Jumpered		5 steaks		1. Dredge steaks in mixture of flour, salt, pepper, and monosodium glutamate; shake off excess.			
Flour, wheat, general purpose, silted	1½ oz	••••					
Salt				·			
glutamate		pinch					
(optional)	l	<u> </u>					

INGHEDIENTS	WEIGHTS	MEASURES		МЕТНОР
				2. Recenstitute milk; add aggs, bland thoroughly.
slightly beaten Bread crumbs, dry, ground Salt Pupper, black		pinch	1	pepper. 4. Dip steaks in egg and milk mixture then in seasoned bread crumbs.
Shortening, melted or salad oil		-		5. Brown steeks evenly on both sides of well greesed griddle. 7. Boke 3 hours of mittle steeks at tender.

NOTE: 1. In Step 2, 10 oz (2½ cups) canned dehydrated egg mis combined with 3 cups warm water may be used for whole eggs. See Recipe Card A-6.

2. Other sizes and types of pans may be used. See Recipe Card A-25.

RATER'S REFERENCE SHEET

FOOD ITEM (8)

FOOD ITEM: Cauliflower Au Gratin

RECIPE NO: Q18

CHARACTERISTICS OF FINISHED PRODUCT:

1. Taste/Flavor

- Creamy, cheesy, cauliflower flavor
- Seasoned to taste (not flat or overpowering)
- Bread crumbs taste buttery and crisp (not stoggy)

2. Appearance

- Color is golden brown on top, creamy yellow sauce coat over firm white cauliflower
- Bread crumbs and sauce are evenly distributed over cauliflower

3. Texture/Consistency

- Cauliflower is tender but firm (not mushy)
- Sauce is smooth, lump free, not curdled and of a coating consistency.

4. Garnish

5. Time to Completion

a. DLP: 65 Minutes

b. MALP: 105 Minutes

		CAULIFLO	WER AU G	RATIN
YIELD 5 Portion	o Pans)			EACH POHTION: 1/2 Cup
PAN SIZE 18 by 2	4 meh Roas	ting Pan		TEMPERATURE: 350°F. Oven
INCHEDIENTS	WEIGHTS	MEASURES		METHOD
Cauliflower, frozen Salt		pinch		 Add cauliflower to salted water. Bring to a boil; cover. Simmer 4 to 8 minutes or until cauliflower is just tender. Drain; place cauliflower in each pan. Set aside for use in Step 9.
Milk, nonfat, dry 1 Water, warm 1		1		4. Reconstitute milk; heat to just below boiling. DO NOT BOIL.
Butter or margarine, melted				 Blend butter or margarine and flour together; stir until smooth. Add flour mixture to milk, stirring constantly. Simmer S minutes or until thickened.
INGREDIENTS	WEIGHTS	MEASURES		METHOD
Salt		pinch		7. Season : ith salt as needed.
Chaese, ground				8. Add chaese; stir until blended.

INGREDIENTS	WEIGHTS	MEASURES		МЕТНО
Salt		pinch .		7. Season; ith salt as needed.
Cheese, ground	ll, oz:	•	• • • • • • •	8. Add chaese; stir until blended. 9. Pour sauce over cauliflower in each pan.
Bread crumbs, dry . Butter or margarine, melted				10. Mix crumbs and butter or margarine. Sprinkle an equal quantity ever cauliflower in each pan. 11. Bake 15 minutes or until crumbs are browned.

NOTE: 1. In Stop 1, 24 lb fresh cauliflower A.P. will yield 20 lb cauliflower.

2. Other sizes and types of pans may be used. See Recipe Cerd A-25.

VARIATION

1 CURRIED CAULIFLOWER WITH PEAS: In Step 1, use 10 lb frozen cauliflower, 11/2 oz (21/2 thup) salt and 11/2 gal boiling water. Follow Step 2. Prepare 10 lb frozen peas according to Herripe Card Q-G-3. Drain peas; reserve liquid. In Step 3, place equal quantities of cauliflower and peas in each pan. Follow Steps 4 through 6. In Step 7, add 2 thep curry powder. Omit Step 8 In Step 9, pour 2 qt sauce over vegetables in each pen. Follow Steps 10 and 11.

RATER'S REFERENCE SHEET

FOOD ITEM (9)

FOOD ITEM: Baking Powder Biscuits

RECIPE NO. D1 (2+3)

CHARACTERISTICS OF FINISHED PRODUCT.

- 1. Taste/Flavor.
 - Flavory bread taste.
- 2. Appearance.
 - Golden brown bottom and top with a paler side and creamy white inner.
 - Dimensions are 1" high by 2 1/2" in diameter with straight sides and a smooth rounded top.
- 3. Texture/Consistency.
 - Crusty outside with moist inner.
 - Tender with a flaky crust.
- 4. Garnish.
- 5. Time to Completion.
 - a. DLP: 1 Hr.
 - b. MALP: 1 Hr, 10 Min.

D BREADS AND SWEET DOUGHS NO. 1 (2). BAKING POWDER BISCUITS

YIELI) 6 Portions (Pana)			EACH PORTION: 2 Biscuits
HAIL	SIZF 18 by 20 m	h Sheet Par	1		TEMPERATURE: 450°F. Oven
PER CENT	Inchedients	WEIGHTS	MEASURES		METHOD
50 66	Flour, wheat, general purpose, sifted	11/2 02			1. Sift together flour, milk, baking powder, and salt into mixer bowl.
343	Milk, nonfat, dry	{	5½ tsp		
	Baking powder.		4 tsp		
1 06	Salt	•	1 1/8 tsp.	1	
10 55	Shortening				2. Blend shortening at low speed into dry ingredients until mixture resembles coarse cornmeal.

PERT	ingredients	WEIGHTS	MEASURES	METHOD
31 66	Water		l cup	3. Add water; mix at low speed only enough to form a soft dough. 4. Place dough on lightly floured board. Kneed lightly, approximately i minute or until dough is smooth. 5. Boll or pet out to a uniform thickness of 1/2 inch. 6. Cut with 2/2-inch floured biscuit gutter. Place biscuits on pans in rows 5 by 9. 7. Bake 15 minutes or until lightly browned.

RATER'S REFERENCE SHEET

FOOD ITEM (10)

FOOD ITEM: Blueberry Muffins

RECIPE NO: D30 (1+2)

CHARACTERISTICS OF FINISHED PRODUCT:

- 1. Taste/Flavor.
 - Sweet and bready.
 - Blueberry flavored.
- 2. Appearance.
 - Uniform size and shape with a smooth rounded top.
 - Golden brown with blueish seepage around the berries on the outside, the inside pale creamy yellow with the same seepage around the berries.
- 3. Texture/Consistency.
 - Tender, crumbly, particularly moist around the berries.
 - Medium-fine evenly distributed air spaces.
- 4. Garnish.
- 5. Time to Completion.
 - a. DLP: 1 Hr.
 - b. MALP: 1 Hr, 20 Min

PLAIN MUFFINS D. BREADS AND SWIFT DOUGHS No. 40(1)

YH LD	5 Parmaus	n Pan	· · · · · · · · · · · · · · · · · · ·		TEMPERATURE: 400°F. Oven
PER	११६ उच छ। भार	WEIGHTS	MEASURES	·	METHOD
1 7.1 3 9 3	general purpose, silled Bakıng powder ,	3/4 02			1. Sift together flour, baking powder, milk, salt, and sugar into mixer bowl.

1111	INCHADIENTS	WEIGHTS	MEASURE9		METHOD
	Eggs, whole, besten Shortening, melled	2 oz . 2 oz		• • • • • • •	 Combine eggs, shortening, and water; mix well. Add egg mixture to dry ingredients. Mix at low speed just enough
100 00	Water	7½ oz			to blend. DO NOT OVERMIX. 4. Fill each well-greased multin cup 35 full (1-No. 16 ecoop). 5. Rake for 20 minutes or until done.

BLUEBERRY MUFFINS: In Step 1, increase granulated sugar to 1½ oz. Follow Step 2.

In Step 3, carefully fold 4 oz. thawed, frozen blueberries or 5 oz. canned, drained, blueberries into batter. Follow Steps 4 and 5.

RATER'S REFERENCE SHEET

FOOD ITEM (11a)

FOOD ITEM: Chocolate Cake

RECIPE NO: G9 (1+2)

CHARACTERISTICS OF FINISHED PRODUCT.

- 1. Taste/Flavor.
 - Sweet, strong chocolate smell.
 - Chocolaty.
- 2. Appearance.
 - Slightly rounded top with even sides.
 - Uniform chocolate brown color (once cut it will be dark on the inside.
- 3. Texture/Consistency.
 - Moist, crumbly.
 - Medium grain with some large holes.
- 4. Garnish.
- 5. Time to Completion.
 - a. DLP: 35 Min.
 - b. MALP: 50 Min.

G DESSERTS (CAKES, FILLINGS, AND FROSTINGS) No. 9(1). CHOCOLATE CAKE

YIMD	8 Portions (P	ans)		EACH PORTION: 1 Piece
PAN :	IZE 18 by 26 mel	n Sheet Pan	, ,	TEMPERATURE: 350°F. Oven
PER	Inchedients	WEIGHTS	MEASURES	метнор
1783	Flour, wheat, general purpose, silted	1.02		 Sift together flour, sugar, salt, baking powder, baking soda, cocoa, and milk into mixer bowl.
28 23		6 3/4 oz ;] ,]	
.65	Salt	·	pinch	 i
.74				 Ì
.19	Baking soda			·
8 17 2 97	Cocoa			etc.

PER CENT	INGREDIENTS	WEIGHTS	MEASURES		МЕТНОВ
8 17 14 85	Shortening	2 :7. 3 ¹ 2 0 2	1	• • • • • • •	 Add shortening and water to dry ingredients. Best at low speed 1 minute or until blended; continue besting at medium speed 2 minutes. Scrape down bowl.
10 40 7 43 37 100 00	Eygs, whole	1 3/4 oz.	2 drops,,,		3. Combine eggs, water, and yanille. Add slowly to mixture while beating at low speed. Scrape down bowl. Beat at medium speed 3 minutes. 4. Pour better into each greased and floured pap. 5. Beke 30 to 35 minutes or until done. 6. Cool; frost if desired. Cut 6 by 9.

RATER'S REPERENCE SHEET

FOOD ITEM (11b)

FOOD ITEM: Butter Cream Frosting

RECIPE NO: G39(2)

CHARACTERISTICS OF FINISHED PRODUCT.

- 1. Taste/Flavor.
 - Creamy, sweet buttery.
 - Faint vanilla flavor (not overpowering).
- 2. Appearance.
 - Color light beige-yellow.
 - Well blended paste.
- 3. Texture/Consistency.
 - Light and aerated.
 - Smooth, evenly distributed ingredients (no lumps).
- 4. Garnish.
- 5. Time to Completion.
 - a. DLP: 10 Min.
 - b. MALP: 12 Min.

G. DESSERTS (CAKES, FILLINGS, AND PROGRESCO) No. 39(2) BUTTER CREAM FROSTING

111-11-1-1-1-1	(14 Quals	Per Sheet C	Cake)	
100-00-01-01-0	WEIGHTS	MEASURES		METHOD
Butter or margarine	4 υΖ.		;	1. Cream butter or margarine in mixer bowl at medium speed 1 to 3 minutes or until light and fluffy.
Sugar, powdered, safted Saft	•			Sift together powdered sugar, salt, and milk; add to creamed butter or margarine.
Vanilla		ı 1		3. Add vanilla while mixing at low speed; add just enough water to obtain a spreading consistency. Scrape down bowl. Béat at medium speed 3 to 5 minutes or until mixture is light and well blended. 4. Spread immediately on cool cakes.

HOTE 1. For six 9-inch (2 layer) cakes: Spread about 1% cups (1 lb) frosting on each cake.

2 For 13 dozen cupcakes: Spread about 1 thep frosting on each oupcake.

VARIATIONS

1 BANANA BUTTER CREAM FROSTING: Follow Step 1. In Step 2, omit nonfat dry milk. In Step 3, omit vanilla and water. Peel and mash 1 lb 3 or bananas A.P. (3 bananas); add mashed bananas and 11/2 oz (3 thsp) lemon juice. Follow Step 4. .: CHOCOLATE BUTTER CREAM FROSTING: Follow Step 1. In Step 2, add 12 of (3 cups) cocoa;

use 114 cups boiling water in Step 3. Follow Step 4.

COCONUT BUTTER CREAM FROSTING: Follow Steps 1 and 2. In Step 3, fold in 8 oz (3 cups) chopped, prepared, sweetened coconut. Follow Step 4. Use 8 os (3 cups) coconut; sprinkle evenly uver each frosted cake.

4 LEMON BUTTER CREAM FROSTING: Follow Steps 1 and 3. In Step 3, amit vanilla; add 4 tbsp

(1/4 cup) grated lemon rind and 6 thsp lemon juice. Follow Step 4.

MAPLE BUTTER CREAM FROSTING: Follow Steps 1 and 2. In Step 3, use 1 thep vanilla and 3 thep maple flavoring. Follow Step 4. MOCHA BUTTER CREAM FROSTING: Follow Step 1. In Step 2, omit nonfat dry milk; add 4 oz

(1 cup) cocoa. In Step 3, omit water and vanilla; add 1 cup double-strength coffee. Follow Step

7 OHATIGE BUTTER CREAM FROSTING: Follow Step 1. In Step 2, omit nonfat dry milk. In Step s, count water and vanilla; add-1 oz (1/3 cup) grated orange rind and 1 cup orange juice. Follow Step 4

RATER'S REFERENCE SHEET

FOOD ITEM (12)

FOOD ITEM: French Toast

RECIPE NO: D22

CHARACTERISTICS OF FINISHED PRODUCT:

- 1. Taste/Flavor
 - Eggy and sweetBread taste
- 2. Appearance
 - Golden yellow/brown
 - Size and shape of bread slice
- 3. Texture/Consistency
 - Moist and soft but not soggy
- 4. Garnish
- 5. Time to Completion
 - a. DLP: 20 Minutes
 - b. MALP: 30 Minutes

FRENCH TOAST

YIELD 5 Porter	1:,		 EACH PORTION: 2 Slices
			TEMPERATURE: 375°F. Griddle
INCHEDIENTS	WEIGHTS	MEASURES	 METHOD
Water	312 oz		 1. Place water in mixer bowl.
14ilk, nonfat, dry Salt Sugar, granulated			 2. Combine milk, salt, and sugar; blend well. Add to water; stir until dissolved.
Eggs, whole, slightly beaten	10 oz		 3. Add eggs to ingredients in mixer bowl; whip.
Bread, dry, sheed . Shortening, melted or salad oil	1½ oz	10 slices.	 Dip breed in egg mixture to coat both sides. Place on well-greased griddle; fry on one side until golden brown. Turn; fry on other side until golden brown. Serve immediately.

VARIATIONS

1. CINNAMON FRENCH TOAST: Follow Step 1. In Step 2, add 1 cs (14 cup) ground cinnamon. Follow Steps 3 through 6.

FRENCH TOAST (DEHYDRATED EGG MIX): Omit Steps 1 through 3. Combine 3 lb 12 oz (3 No. 3 cyl cn) canned dehydrated egg mix; 1 oz salt (1% thep) and 8 oz (1 cup) granulated outgar in mixer bowl. Add 2 qt lukewarm water to egg mixture; stir until a smooth paste is formed. Add 3 qt lukewarm water. Whip until well blended. Refrigerate until ready to use. Follow Steps 4 through 6.

3 NUTMEG FRENCH TOAST: Follow Step 1. In Step 3. edd 11/4 thep ground nutmeg. Follow

Steps 3 through 6.

RATER'S REFERENCE SHEET

FOOD ITEM (13)

FOOD ITEM: Western Omelet

RECIPE NUMBER: P11(1) & 8(2)

CHARACTERISTICS OF FINISHED PRODUCT:

- 1. Taste/flavor.
 - Cheesy and egg flavored
 - Seasoned to taste (not flat or overpowering)
- 2. Appearance.
 - A yellowish golden brown
 - Rectangle tri-folded, filled with grated cheese
- 3. Texture/Consistency.
 - Firm, moist, and spongy
- 4. Garnish.
- 5. Time to Completion.
 - a. DLP: 20 Minutes
 - b. MALP: 30 Minutes

F. CHEESE AND EGGS No. 8(1) -

PLAIN OMELET

YIELD 2 Portion	ម		EACH PORTION: 1 Omelet
			TEMPERATURE: 325°F. Griddle
III AFDIENTS	WEIGHTS	MEASURES	METHOD
Eggs, whole	• • • •	4 eggs	 1. Place shelled eggs in mixer bowl. Using wire whip, best just enough to blend yolks and whites.
Salt		to taste .	2. Add selt end pepper; mix thoroughly.
Chartening, melted or induction			3. Pour 1/2 cup (1-3 or lade) egg mixture for individual omelets on greesed griddle. 4. Cook until bottom is golden brown. DO NOT STIR. If necessary, gently permit uncooked mixture to flow underpeats. Continue cooking until eggs are set.

INGREDIENTS	WEIGHTS	MEASURES		MITHOD
				5. Fold omelet in helf or into thirds making a long ovel shaped omelet. Berry immediately or place in a bot steam table pas.

3. CHEESE OMELET: Follow Steps 1 through 3. In Step 4, use 4 os. grated or shredded cheese; sprinkle about 2 thep (1-No. 30 Scoop) over eggs when partially set. Follow Step 5.

Note: canned, dehydrated cheese combined with warm water may be substituted for grated or shredded cheese. See Recips Card 7-G-1.

DIRECTIONS FOR CONFIRMATION TASKS--COOKING SKILLS

Today, you will be checked on how well you can perform specific cooking skills you practiced in the small quantity cooking and baking phase of your training.

You will be given the opportunity to do it the best you can while an instructor observes you and rates your performance. This review task will make it possible for the instructors to help you improve your skills so you can use them to prepare food items that soldiers will enjoy eating.

You are to report to Station # ____. An instructor will be there to meet you and tell you what skills you are to demonstrate. He will also ask you certain questions so you can explain what you are doing and why.

All the utensils, equipment, and ingredients you will need will be given to you by the instructor.

CONFIRMATION TASK RATING SHEET--COOKING SKILLS

STUDENT'S NAME/NO:	 	
RATER'S NAME:		
CONFIRMATION TASK:		DATE:
		terion. Refer to rater's reference arks in the column labeled REMARKS.
0 = Not present (not done)	:	3 - Present (done) above MALP
l = Present (done) but not minimal	lly acceptable.	4 = Present (done at desired level for
2 = Present (done) but only minima (MALP)	ally acceptable	given conditions)(DLP).
RESULTS	RATING	REMARKS
Criterion #1: Finely shredded fresh cabbage.	0 1 2 3 4	
Criterion #2: Diced fresh sweet pepper (1/2 inch).	0 1 2 3 4	
Criterion #3: Sliced fresh pared cucumber (1/8 inch).	0 1 2 3 4	
Criterion #4: Cutting temato wedges (8)	0 1 2 3 4	
Criterion #5: Making a	0 1 2 3 4	

RATER'S REFERENCE SHEET

COOKING SKILLS

- 1. Skill: Finely shredding fresh cabbage.
 - a. Procedure:
 - (1) Remove any wilted leaves.
 - (2) Divide necessary amount (1/4 cabbage).
 - (3) Wash under cold running water.
 - (4) Place flat side down on cutting board.
 - (5) Using cook's knife, cut thin slices (shredding).
 - (6) Place in large mixing bowl.
 - b. Appearance: Evenly finely shredded cabbage.
 - c. Time to Completion:
 - (1) DLP: 5 Minutes.
 - (2) MALP: 8 Minutes.
- 2. Skill: Dicing fresh sweet pepper (1/2-inch).
 - a. Procedure:
 - (1) Remove any bad spots with a paring knife.
 - (2) Using paring knife, remove stem.
 - (3) Cut pepper in half length ways.
 - (4) Remove the white membrane.
 - (5) Wash pepper under cold running water to remove all the seeds.
 - (6) Place pepper on cutting board and cut into 1/2-inch strips.
 - (7) Using cook's knife, cut 1/2-inch strips into 1/2-inch dice, using one whole peppe
 - (8) Place into large mixing bowl.
 - b. Appearance: Evenly 1/2-inch diced peppers.
 - c. Time to Completion:
 - (1) DLP: 5 Minutes
 - (2) MALP: 8 Minutes

- 3. Skill: Sliced fresh-pared Cucumber (1/8-inch).
 - a. Procedure:
 - (1) Using vegetable peeler, remove skin from cucumber from end to end.
 - (2) Using cook's knife, cut slices of cucumber 1/3-inch thick, using one whole cucumber, which should be laying on the cutting board.
 - b. Appearance: Evenly 1/8-inch slices of cucumber devoid of skin.
 - c. Time to Completion:
 - (1) DLP: 5 Minutes
 - (2) MALP: 8 Minutes
- 4. Skill: Cutting fresh tomato wedges.
 - a. Procedure:
 - (1) Using a paring knife, remove the core from the tomato.
 - (2) Place the tomato on the cutting board, cut in half, lay each half down on the board and cut in half, cut each piece in half once more.
 - b. Appearance: 8 evenly cut and equally-sized wedges of tomato.
 - c. Time to Completion:
 - (1) DLP: 2 Minutes.
 - (2) MALP: 3 Minutes
- 5. Skill: Making a brown roux.
 - a. Procedure:
 - (1) Measure the required ingredients.
 - (2) Heat the required amount of fat (shortening) in pan.
 - (3) Sprinkle the required amount of flour evenly over heated fat. Using a wire whip, stir flour into heated shortening. Cook over low heat. Keep stirring to blend and keep mixture smooth and free of lumps.
 - (4) Continue to cook roux over low heat. Stir until roux is evenly brown in color.
 - b. Appearance: Smooth, evenly-browned mixture, free from lumps, cooked out, and not burned.
 - c. Time to Completion:
 - (1) DLP: 10 Minutes.
 - (2) MALP: 12 Minutes.

1A -- HANDLING, INSPECTING, SHARPENING, AND CLEANING KNIVES

RESULTS	1. Neither you or anyone will be accidentally hurt and the knife will not be accidentally damaged.	2. Knife has been carefully inspected and the proper action has been taken to have a clean sharp, safe knife to use.	. 3. Cutting edge of knife is sharp so food can be easily and safely cut as desired. Knife blade has not been damaged.	A-45
HOV	When not using the knife, lay it on the table or cutting board on its side, not with the cutting edge up. When carrying a knife, hold it by the handle with the blade laying flat up against the back of your forearm and your arm held slightly back. When getting ready to use the knife for cutting, hold it firmly by the handle and with the toe of the knife pointed slightly downward.	Examine the handle and the blade carefully. Check for loose or damaged handle; rust, chips, or deep gashes in blade; dirt or grease on either handle or blade. If knife is damaged so it is unsafe to use, notify the person in charge and obtain another one. If knife blade just needs sharpening, use procedure #3 below. If knife just needs cleaning, use procedure #4 below.	Take the knife to the place where the sharpening stone is located. Remove the cover from the stone. Check to make sure there is oil (edible oil) in the well. Holding both handles, rotate the stone so the coarse side is facing up. Position yourself and the stone so you will have room to slide the knife blade diagonally across the stone. (Stone about 6"-8" away from the edge of the table.) Hold the knife firmly by the handle. Lay the knife blade flat on the stone. Lay the fingers of the other hand lightly on the knife blade close to the toe of the blade but not near the cutting edge. (This is to balance and guide the knife.) Draw the knife edge diagonally acorss the stone, heel to toe, several times, sharpening one side of the cutting edge.	
	ن غرية	<u> </u>	م م ن ح ن م	
WHAT	1. Handle the knife in a safe, efficient manner	2. Inspect the knife	3. Sharpen the knife	

1A--HANDLING, INSPECTING, SHARPENING, AND CLEANING KNIVES

(Continued)

	RESULTS		4. Knife is clean and safe to use on food.
/ panita iion)	нОМ	g. Turn the knife over so the other side of the blade is in contact with the stone. Hold and balance the knife as before, and, again, draw the blade diagonally across the stone, heel to toe, several times to sharpen the other side of the cutting edge. h. Carefully lay the knife down and rotate the stone so the medium side is facing up. j. Repeat f and g above, sharpening both sides of the knife on the medium stone. j. Carefully lay the knife down and rotate the stone so the fine side is facing up. k. Repeat f and g above, sharpening both sides of the knife on the fine stone. l. Replace the cover on the sharpening stone and move back to original position. m. Clean the knife using procedure #4 below.	a. (After Sharpening) Hold the knife handle firmly. Lay the blade of the knife flat on the table top. Butt the handle up against the edge of the table so the entire blade, heel to toe, is lying flat on the surface. Use a clean towel to rub the whole blade clean on one side. Jurn the knife over and postition it again by butting the handle against the table edge and keeping the blade flat on the surface. Rub the other side of the knife clean. b. (When dirty) Hold the knife handle and swish the blade in warm, soapy water. Position the knife as in a above and wash the blade on both sides with scouring pad, towel, etc. Rinse in hot water. Position knife again on surface and dry with towel. (Never leave a knife in soapy water in the sink::)
	WHAT		4. Clean the knife

SQ1--CHEF'S SALAD
(T) PROCEDURE CHART 18

18--CLEANING AND TRIMMING FRESH PRODUCE (VEGETABLES & FRUIT)

	RESULTS	1. Only usable produce is kept for use in preparing food products.	free of bad spots, and all of the skin is pared off.
10	нон	Before storing produce, examine each item. Remove unusable portions, such as wilted outer leaves, and any rotten items. (Check stored produce periodically and cull again, as needed)	
	MHAT	1. Culling produce	2. Clean, trim, & pare such produce as carrots, potatoes, and cucumbers

PROCEDUR	
18CLEANING AND TRIMMING FRESH PRODUCE (VEGETABLES & FRUIT)	(CONT'D)

WHAT	МОН	RESULTS
3. Clean & trim such produce as	a. CABBAGE OR LETTUCE. (1) Hold head (of cabbage or lettuce) over scrap tray. Pull off and discard any tough or wilted outside leaves.	3. The produce item is clean, free of bad spots and tough or wilted leaves, and the
celery, etc. (green,	(2) Wash thoroughly in clean, cold water (or under cold, running tap water) to remove all dirt, grit, etc. Shake off excess water. (3) Examine head carefully for brown spots. Cut brown spots off with paring knife or tear them off with fingers.	stem is removed.
vegetables)	vegetables) (4) Cut off stem. Hold head firmly in one hand over scrap tray. Insert paring knife beside stem. Rotate head to cut off stem. Or, lay head on cutting board with stem to one side. Hold head firmly. Use paring knife, with sawing motion, to cut stem off.	:
	(5) Place clean, trimmed head in container of clean, cold water.	
	b. CELERY. (1) Hold bunch of celery over scrap tray. Pull off and discard leaves.	
	(2) Cut off stem. Hold bunch firmly on cutting board with stem to one side. Use paring knife to cut entire stem off so each stalk is separate.	
	(3) Wash stalk in clean, cold water. Examine for brown spots. Cut brown spots off with paring knife (over scrap tray).	
	(4) Put each clean, trimmed stalk into a container of clean, cold water.	

SQ1 -- CHEF'S SALAD

PROCEDURE CHART 18 18--CLEANING AND TRIMMING FRESH PRODUCE (VEGETABLES & FRUIT) (CONT'D)

RESULTS	3. Produce item is clean, free of bad spots, and the stem section is removed. In some, such as the bell papper and apple, the section containing the seeds (the core) is also removed.	A-49
НОН		(5) Place clean, cored apples in water containing lemon juice or vinegar to avoid oxidizing.
WHAT	4. Clean, trim, and core such produce as bell pepper, and tomato	

18--CLEANING AND TRIMMING FRESH PRODUCE (VEGETABLES & FRUIT)

(CONT'D)

RESULTS	
МОН	c. IDMATO. (1) Wash tomato in clean, cold water. (2) Examine tomato carefully for bad spots. Hold tomato over scrap tray. Use paring knife to remove bad spots. (3) Set tomato on cutting board, stem side up. Insert paring knife near stem. Turn tomato over. Repeat the procedure to cut out any dark place at the bottom. (4) Place clean, cored tomato on paper towel or on tray. Do not place tomatoes into water.
WHAT	

SQ1--CHEF'S SALAD

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TEARING, SHREDDING, DICING, CHOPPING, MINCING, SLICING, WEDGING, STRIPPING

1	HOH .	RESULTS
	 A. Remove lettuce from water. Shake off excess water. b. Slam lettuce, stem side down, on cutting board to loosen leaves. pull leaves apart. 	1. Lettuce leaves are torn into "bite-size" pieces, none larger than can easily
	c. Pick up some leaves in one hand and bunch together. Hold over clean container. With other hand, tear off "bite-size" pieces of lettuce and drop them into the container.	be picked up with a fork and put into the mouth.
Shred. e.g., cabbage, lettuce,	a. Hold cabbage firmly on cutting board, stem side up. Use cook's knife to cut the head of cabbage in half. Place the knife on center of stem. Place other hand over the top of the knife blade, holding both sides of the cabbage with the fingers. Press downward and forward on knife to cut the cabbage into two equal halves.	2. Food item is cut into long, thin shreds, all of about the same width (fine cut, 1/16" or less; coarse cut, about 1/8").
	b. Use the paring knife to core the stem out of each half. Make a slanted cut on each side of the stem and lift the stem out. Discard core on scrap tray.	
	c. Place cabbage half on cutting board, cut side down. Hold cabbage firmly with one hand, fingers curled into a "claw". Hold cook's knife firmly in other hand. Place cutting edge of knife about 1/16" from edge of cabbage. Look over knife to what is to be cut. Use a downward and forward motion to cut cabbage into very fine shreds. (If coarser cut is needed, such as for soups, etc., make shreds a little wider, about 1/8".) Continue shredding until the desired amount is cut. After cutting, separate shreds with fingers.	>
3. Dice, e.g., celery, green (bell) perper,	a. Place e.g., celery stalk on cutting board. Hold celery with fingers of one hand and place cook's knife so 1/4" wide strips can be cut. Look over knife and cut as many 1/4' wide strips as possible. (Move fingers back as each strip is cut off.)	 Food item is cut into 1/4" cubes, all about the same size.
apple, cheese, meat, etc.	b. Hold strips together on uctting board so all ends are even. Place cook's knife 1/4" from ends with toe of blade down. Press down on knife with slight forward motion. Continue cutting through strips, about 1/4" back each time. (Move fingers back as cuts are made, but	
		A-51

1C--TEARING, SHREDDING, DICING, CHOPPING, MINCING, SLICING, WEDGING, STRIPPING (CONT'D)

WHAT 4. Chop,	a. Item to be chopped thould already be in small pieces (they may have	RESULTS 4. Food item is cut into pieces
e.g., celery, green pepper onion, etc.	been diced first). b. Push pieces together on the cutting board. Hold the cook's knife by the handle in one hand over the pieces. Place the fingers of the other hand lightly on top of the blade of the knife. Place the toe of the knife on the cutting board and lift the heel. Press down with a slight forward motion. Repeat this "toe-heel", rocking back and forth, to cut the pieces into smaller pieces.	that are smaller than 1/4" and are not all the same size or shape.
5. Mince, e.g., celery, green pepper, onion, etc.	Continue the chopping procedure as described in #4 above until pieces are 5. very tiny.	5. Food item is cut into very tiny pieces.
6. Slice, e.g., cucumber, tomato, potato, apple, meat, chese, egg, etc.	a. Hold the item, e.g., cucumber, down on the cutting board, using the "claw" hold. b. Place the cook's knife on the cucumber as far from the edge as the desired width of the slice. Look over the blade to watch the slices, but remember to be mindful of your fingers behind the blade. Keep the toe of blade slightly down. Press down and slightly forward to cut slice. Repeat for each slide. NOTE: For thin slices, use the same procedure, but use the paring knife, which has a thinner blade.	6. Food item is cut into the desired number of slices, each of the same width and evenly cut.
7. Wedge, e.g., tomato, hard-cooked egg, apple, etc.	a. Hold the item, e.g., tcmato, on the cutting board, stem side down. b. Place the cock's knife over the center, top of the tomato. Place the other hand over the top of the knife, holding the tomato on each side with the fingers. Press down with a forward, downward motion to cut the tomato in half. c. Use the same procedure as above to cut each tomato half in half (four wedges). d. Repeat the procedure to cut each tomato wedges in half (eight wedges).	7. Food item is cut into equal- size wedges, the same width at the wide edge and sides slanted up to a sharp edge.

DIRECTIONS FOR CONFIRMATION TASK--RECIPE CONVERSION

At this time, the task you will be doing is designed to find out how well you have learned to convert recipes. This review is to tell us whether or not you are able to convert the quantity of any ingredient given on a recipe card to a number of portions greater than or less than 100. Doing this now will tell us what additional help you may still need to do this task quickly and accurately.

- 1. You will be given the following materials:
 - a. Two recipe cards
 - b. Two recipe conversion work sheets.
- 2. You will convert one recipe at a time. You will do each of them the same way.
 - a. Copy the weight and measure of each ingredient (for 100 portions) from the recipe card to the work sheet (columns B and C).
 - b. Use the work space (column F) to work out the conversion of the weight and measure of each ingredient.
 - c. Write in the converted weight and measure of each ingredient (for the new number of portions) (Columns D and E).
- 3. Be sure to put your name and number in the space provided at the top of the work sheet.
- 4. You will have a maximum of 40 minutes to do both recipe conversions. Since your results will be judged for both accuracy and the amount of time needed, work as quickly as you can, but take the time to check because accuracy will count more than speed.
- 5. You are not to ask anyone for help. Do the best you can on your own.
- 6. If any part of these directions are unclear, get them answered BEFORE you start.

ADVANCED INDIVIDUAL TRAINING 94B10 TEST CONFIRMATION TASK RATING SHEET--RECIPE CONVERSION

STUDENT'S NAME/NO:		
RATER:		DATE:
Use the rating scale below to rain space labeled <u>REMARKS</u> .	te BOTH recipe conversi	ons TOGETHER. Write remarks
CRITERION NO. 1:	CRITERION NO. 2:	
0 = Not done, illegible,	0 = DID NOT complete o	r took more than 35 minutes
or more than 6 errors	1 = Took between 30-35	minutes
2 = 5-6 errors	2 = Took between 25-30	minutes
4 = 3-4 errors	3 = Took between 20-25	minutes
6 = 1-2 errors	4 - Took less than 20	minutes
8 = 0 errors		
CRITERIARECIPE CONVERSION	RATING	REMARKS

CRITERIARECIPE CONVERSION		RA'	ring			REMARKS
CRITERION NO. 1The amount of each ingredient for both conversions was accurate and legible for the given number of people.	0	2	4	6	8	
CRITERION NO. 2Both conversions were completed within the time allowed.	0	1	2	3	4	
					t 1,	

ADVANCED INDIVIDUAL LRAINING 94B10 TEST RECIPE CONVERSION WORK SHEET

	PORTIONS			
	TO BE CONVERTED TO:	WORK SPACE	(£)	
RATER:	TO BE CO	MEASURES CONVERTED TO PORTIONS	(e)	
		WEIGHTS CONVERTED TO PORTIONS	(P)	·
		RECIPE MEASURES FOR 100 PORTIONS	(c)	
		RECIPE WEIGHTS FOR 100 PORTIONS	(P)	
STUDENT'S NAME/NO:	RECIPE FOR:	INGREDIENTS	(8)	

O. SAUCES, GRAVIES, AND DRESSINGS No. 16(1) BROWN GRAVY

YIELD: 6 Portion	S		EACH PORTION: 1/3 Cup
PAN SIZE:			
INGREDIENTS	WEIGHTS	MEASURES	метнор
Meat drippings and clear fat or shortening Flour, wheat, general purpose, sifted		2 Tbsp 4 Tbsp	 Sprinkle flour evenly over drippings and fet in bottom of pan. Use brown particles remaining in pan. Cook over low heat on top of range or in 375°F, oven 30 minutes until flour is a rich brown color. Stir frequently to avoid over-browning.
Stock, hot	·•·········		
Salt	ľ		

ADVANCED INDIVIDUAL TRAINING 94B10 TEST RECIPE CONVERSION WORK SHEET

Al deres

YIELD 100 Portions (21/2 Gallons)

EACH PORTION: 1 Omelet

·			TEMPERATURE: 325°F. Griddle
INCREPIENTS	WEIGHTS	MEASURES	METHOD
Eggs, whole	20 вь	2½ gal (200 eggs)	 1. Place shelled eggs in mixer bowl. Using wire whip, beat just enough to blend yolks and whites.
Salt	1	43/3 lbsp .	2. Add salt and pepper; mix thoroughly.
Shortening, melled or salad ail		·	 Pour ½ cup (1-3 oz ladle) egg mixture for individual omelets on greased griddle. Cook until bottom is golden brown. DO NOT STIR. If necessary, gently lift cooked portion with a spatula to permit uncooked mixture to flow underneath. Continue cooking until eggs are set.

(OVER)

1	INCREDIENTS	WEIGHTS	MEASURES	METHOD
				5. Fold omelet in half or into thirds making a long oval shaped omelet. Serve immediately or place in a hot steam table pan.

NOTE: 1. In Step 1, 6 lb 4 oz (5-No. 3 cyl cn) canned, dehydrated egg miz combined with 7½ qt warm water may be substituted for whole eggs. In Step 2, omit salt. See Recipe Card A-8.

2. To offer assorted emelets, prepare ingredients for desired Variations. Set up ingredients in individual containers and place near griddle.

YARIATIONS

- 1 BACON OMELET: Fry S lb (3% qt) chopped becon until crisp; drain thoroughly. Follow Steps 1 through 3. In Step 4, sprinkle about 1 thep becon over eggs when partially set. Follow Step
- 2. BAUEHNFRUESTUECK (FARMER'S BREAKFAST): Sauté about 8 lb (1½ gal) cooked, diced polations (9 lb 4 or A.P.), 4 lb (3 qt) chopped, cansed ham, and about 1 lb (3 cups) chopped onions (1 lb 2 or A.P.) in 1 lb 12 or (3 cups) butter or margarine. Add 2 or (1 cup) chopped factory, 1½ or (2 thep) salt, and 2 tsp black pepper. Follow Steps 1 through 3. In Step 4, aprinkle ¼ cup (1-No. 16 Scoop) mixture over eggs when partially set. Follow Step 5.

ADVANCED INDIVIDUAL TRAINING 94B10 TEST RECIPE CONVERSION WORK SHEET

	PORTIONS
RATER:	TO BE CONVERTED TO:
STUDENT'S NAME/NO:	RECIPE FOR: BAKING POWDER BISCUITS (D-1(2))

RECIPE FOR: BAKING POWDER BISCUITS	ER BISCUITS	(b-1(2):		TO BE CC	TO BE CONVERTED TO:	PORTIONS
INGREDIENTS	RECIPE WEIGHTS FOR 100 PORTIONS	RECIPE MEASURES FOR 100 PORTIONS	WEIGHTS CONVERTED TO PORTIONS	MEASURES CONVERTED TO PORTIONS	WORK SPACE	
(a)	(b)	(c)	(p)	(e)	(£)	
Flour, wheat, general-purpose,						·
Milk, nonfat, dry						
Baking powder					÷	
Salt						
Shortening			•			
Mater						•
						\ - 59

BAKING POWDER BISCUITS

YIELI	D: 100 Portions (4	Pans)		EACH PORTION: 2 Biscuits		
PAN	SIZE: 18 by 26-inc	ch Sheet Par	1	TEMPERATURE: 450°F. Oven		
PER - CENT	INGREDIENTS	WEIGHTS	MEASURES	METHOD		
50.66	Flour, wheat, general purpose, sifted	12 lb	3 gal	 1. Sift together flour, milk, baking powder, and salt into mixer bowl.		
3.43	Milk, nonfat, dry	13 oz	2% cups.			
2.64	Baking powder .	10 oz	11/2 cups .			
1 06	Salt	4 oz	6 tbsp			
10.55	Shortening	2 lb 8 oz.	5% cups .	 2. Blend shortening at low speed into dry ingredients until mixture resembles coarse cornmeal.		

(OVER)

PER CENT	INGREDIENTS	WEIGHTS	MEASURES		METHOD
31.66	Water	7 lb 8 oz.	3¾ qt	• • • • •	3. Add water; mix at low speed only enough to form a soft dough.
100.00		23 lb 11 oz			4. Place dough on lightly floured board. Knead lightly, approximately I minute or until dough is
					smooth. 5. Roll or pat out to a uniform thickness of ½ inch. 6. Cut with 2½-inch floured biscuit.
					cutter. Place biscuits on pans in rows 6 by 9. 7. Bake 15 minutes or until lightly browned.

DIRECTIONS FOR CONFIRMATION TASKS--OPERATING/MAINTAINING EQUIPMENT

Today, you will be checked on how well you can inspect, operate, and clean certain equipment you will be using in a dining facility. You have already learned about this equipment during the Garrison Equipment Phase of your training. None of the equipment should be unfamiliar to you if you paid attention during your training.

An instructor will observe you as you work with each piece of equipment and rate your performance. This review task will make it possible for instructors to help you improve your ability to use the equipment properly so you can function better in a dining facility.

You are to report to Station # _____. An instructor will be there to meet you and tell you what you are to do. He will also be asking you certain questions so you can explain what you are doing and why. Everything you will need to work with, the equipment will be at the Station.

ADVANCED INDIVIDUAL TRAINING 94B10 TEST CONFIRMATION TASK RATING SHEET-GARRISON EQUIPMENT

STUDENTS	NAME/NO:	•	RATER:		····
EQUIPMENT	ITEM:	·		DATE:	

Use the rating scale below to rate each listed criterion. Refer to Rater's reference sheet - procedure chart for explanation of the procedure. Write remarks in the column labeled REMARKS.

- 0 = Did not do, 1 = Did but not minimally acceptable, 2 = Did at MALP
- 3 Did above MALP but not to desired level (DLP), 4 Did at DLP for given conditions.

CRITERIA	ſ	KA.	ring			Í	REMARK
iterion #1Checked equipment pefore starting to operate it.	0	1	2	3	4		
iterion #2Explained purpose for checking.	0	1	2	3	4		
iterion #3Observed all neces- sary safety precautions before operating.	0	1	2	3	4		
<u>lterion #4</u> Explained importance of safety precautions.	0	1	2	3	4		
iterion #5Took the proper actions to start the equipment.	0	1	2	3	4		
<u>lterion #6Took the properactions to operate the equipment.</u>	0	1	2	3	4		
terion #7Explained starting and operating procedures.	0	1	2	3	4		
terion #8Took the proper actions to stop the operation.	0	1	2	3	4		
terion #9Explained procedure for stopping the operation.	0	1	2	3	4		
terion #10Took proper actions to disassemble equip- ment for cleaning.	0	1	2	3	4		
Iterion #11Explained dis-	0	1	2	3	4		
iterion #12Took proper actions to clean equipment.	0	1	2	3	4		
iterion #13Explained clean- ing procedure.	0	1	2	3	4		
<u>lterion #14</u> Took proper actions to assemble equipment.	0	1	2	3	4	}	
iterion #15Explained assem-	1					}	

QUESTION SEQUENCE FOR GARRISON EQUIPMENT

Whe	en student	repor	ts to	the	Rater	to d	emonstrate	his/her	know	ledge	of	the	piece
οf	equipment,	the	Kater	shou	ld us	e the	following	sequence	e of	questi	lons	:	•

l.	What is this (point to equipment) called?	
2.	What is its function in the dining facility?	
3.	What are its main parts?	
4.	(For each part named) What is its purpose?	
5.	In using the (Equipment), what would you do first?	
6.	Why would you it first?	
7.	What should the result be ifit	properly?
	(Student does what he/she indicated)	
8.	What would you do next in using the	?
9.	Why would that be the next thing you would do?	
10.	What should the result be if you	_it properly?
	(Student does what he/she indicated)	

RECYCLE FOR ALL STEPS IN OPERATION AND MAINTENANCE

. G/E #1A

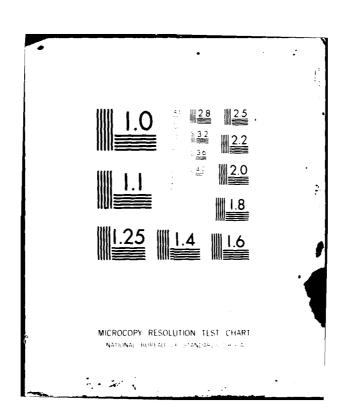
MILK DISPENSERS

NAME OF EQUIPMENT	WHERE FOUND & USED	WHEN - WHY USED
Milk Dispenser	Unit is placed on self-service beverage table in serving area	Allows persons to get own glasses of milk filled, and refilled. Unit does not require personnel to serve. Bulk milk is less expensive than carton milk.
	BRIEF DE	BRIEF DESCRIPTION
	The bulk milk dispenser is a mechanically refrigerated storing and dispensing cabinet upright, rectangular cabinet mounted on four legs. The interior and exterior of the are stainless steel and the corners of the interior are rounded for easy cleaning. T cooled by a self-lubricating compressor unit that maintains temperature between 35-38 accommodates three 5 or 6 gallons of milk in either plastic or cardboard containers.	is a mechanically refrigerated storing and dispensing cabinet for milk is an inet mounted on four legs. The interior and exterior of the milk dispenser the corners of the interior are rounded for easy cleaning. The cabinet is sing compressor unit that maintains temperature between 35-380 F. The cabinet 6 gallons of milk in either plastic or cardboard containers.

PARTS OF THE EQUIPMENT - CONTROLS

NAME OF PART	APPEARANCE OF PART	USE OF PART IN THE EQUIPMENT
l. Temperature Regulator	. Temperature Rectangular, about 3X4 with a movable round disc in the Controls temperature of the interior Regulator middle. Mounted on the left side of the cabinet.	Controls temperature of the interior
2. Dispensing Levers	Three levers, stainless steel, can be removed from unit, The upper bar of the lever fits into niches cn each lever is one piece. Weight on one end, base plate either side of the plastic dispensing well and on other end, bar in the middle connecting both sides. acts as a pivot point for the lever. The milk container dispensing tube passes thru an openit in the lever plate. In the closed position, the weight end blocks the flow of milk by exerting pressure on the tube. Milk flows freely when handle is raised.	The upper bar of the lever fits into niches cneither side of the plastic dispensing well and acts as a pivot point for the lever. The milk container dispensing tube passes thru an opening in the lever plate. In the closed position, the weight end blocks the flow of milk by exerting pressure on the tube. Milk flows freely when handle is raised.

ARMY QUARTERMASTER SCHOOL FORT LEE VA F/6 5/9
EVALUATION OF LEARNING STRATEGIES TRAINING PROGRAM 94810 FORT L--ETC(U)
NOV 81 C E CAVERT, J A SHTOGREN AD-A115 085 UNCLASSIFIED NL 2 or 3 A() A 5.095



FILLING AND CLEANING THE MILK DISPENSER

	FILLING AND ULCANING INC MILA DISTENSER	
WHAT	жон	RESULTS
1. Inspect Unit	1. Insure unit is clean. 2. Insure all parts are there. 3. Assemble unit 4. Plug in unit	. Milk dispenser is clean and ready for loading.
2. Loading	1. Carefully pull out the plastic wrapped tube. Gently remove plastic wrapping covering the tube. NOTE: Pulling too hard may remove tube from bag nipple causing the milk to spill out. 2. Open dispenser door, remove lever from dispensing tube well. 3. Carefully place milk carton in the dispenser positioning it so that the dispensing tube extends into the tube well.	2. Milk dispenser is now ready for use.
	4. Holding the lever by its handle, slip the lever up over the tube, feed the tube through the opening of the lever plate. 5. Continue to slide the lever up over the tube until the ends of the lever top bar rest in the niches on either side of the tube well. 6. Cut the tube 1/4 inch below the base plate and wipe the small amount of milk spills when the tube is cut.	
3. Removing empty Carton	1. Open cabinet door. Lift the lever to disengage it from the niches in the dispensing tube well; then slide lever off the dispensing tube. 2. Remove the empty carton.	3. Ready for reloading
4. Removing partially cull carton. NOTE: Milk should be removed only when defrosting or mechanical failure.	 Open door, pinch the dispensing tube above the lever and gently slide the tines of a fork over the tube. Clamp between two tines. Lift lever, remove from tube. Lift carton out of the dispenser and turn it so that the tube is facing upward. Place in refrigerator. 	4. Unit now ready for cleaning.

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PENANCE	Ż
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8L# 39

			OPERATOR MAINTENANCE	GE #18	
1	CLEANING		MOH	RESULTS	
1-	l. After each meal	<u> </u>	a. Remove drip pan under dispenser tubes. Wash with a hot detergent solution, rinse with clear hot water and air dry. b. Wash the exterior surfaces of the milk dispenser with a disposable cloth dampened in hot detergent solution. Rinse with cloth dampened in hot clear water and dry with clean dry cloth. Replace drip pan.	Dispenser ready for reuse.	y for
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2. Twice weekly	1 49	ed, clean the outside of the cabinet with an approved	Polished unit.	
m	3. Defrosting NOTE: Only when ice has accumulated to 1/4-in thick		i, wash the interior, inside of door and door gasket lution. Rinse with clear warm water mixed with a small bry with clean disposable cloth. Wash levers in hot in clear hot water and air dry.	Dispenser is cleaned and ready for reuse.	reuse.
4	4. Safety. a. When wash- ing exterior. Be careful not to wet the electrical cord.		a. Always keep door closed except when loading or defrosting.	4. Remove partially filled cartson only when necessary.	ially ison iecessary.

INSPECTING, LCADING/OPERATING, CLEANING BULK MILK DISPENSER

	RESULTS	1. Bulk milk dispenser is clean and safe to use or the proper person has been notified.	2. Patrons have been able to obtain servings of milk from the bulk milk dispenser, no one is hurt, and the machine is undamaged.
TITLE DISTENSER	НОМ	a. Make sure machine is unplugged. b. Check eletrical cord and outlet for damage or unsafe conditions. c. Check gasket on door on the front of the cabinet to be sure it fits tight, regulator is clear and unbroken. d. Check to make sure levers and drip pan are present and undamaged. e. Check to make sure inside of cabinet, levers, and drip pan are clean. f. If machine is damaged, unsafe to use, or parts are missing, notify the person in charge. If any part needs cleaning, use the procedures described in #3 below.	a. Assemble unit. Install levers, drip pan, etc. Shut door tightly. Plug unit it. Set temperature regulator to 380 and allow to cool down for 45 minutes to I hour. b. Obtain three 6-gallon cartons of milk from the walk-in refrigerator. Carefully pull out plastic-wrapped white tubes and gently remove plastic covering. c. Open dispenser door. Carefully place each milk carton in the dispenser, bottom up and white dispensing tube extending into the tube well. d. Hold lever by the handle. Slip lever over tube and feed the tube through the opening. Continue sliding the lever up over the tube until the lever rests in the miches on the sides of the tube well. Cut the tube with a sharp paring knife about 1/4" below the base plate. Repeat for other two cartons. Wipe up any spills that occurred when tube was cut. e. To remove any empty carton, open the cabinet door. Lift the lever and slide it off the tube. Remove the empty carton. f. To remove a partially full carton, open the cabinet door. Pinch the dispensing tube above the lever and gently slide it between the tines of a work to keep it pinched. Lift lever, remove from tube. lift carton out and turn it over so the pinched-off tube is on top. Place carton in refrigerator.
		e er	
	WHAT	PRE-OPERATIONAL CHECK Inspect the bulk dispenser to make sure it is clean, operational, and safe to use.	OPERATION
	STEP	∴	2

INSPECTING, LOADING/OPERATING, CLEANING BULK MILK DISPENSER (CONT'D)

RESULTS	3. Bulk milk dispenser is clean and ready for use, no one is hurt, and the machine is undamaged.	A-69
ном	a. During use and after each meal: (1) Remove drip pan. Wash in hot detergent solution, rinse well in (2) Wash the outside of the dispenser with a disposable cloth dampened in hot clear water. Wipe with clean dry cloth. NOTE: Do not wet the electrical cord. (3) Replace clean drip pan. b. Twice Weekly: Clean the outside of the cabinet with an approved stainless steel cleaner. c. Defrosting: (1) Unplug unit and open door. Allow frost to melt. (2) Wash insides of cabinet, inside of door and door gasket with a warm detergent solution. Rinse with clear warm water mixed with a little baking soda. Dry with a clean disposable cloth. (3) Wash levers in hot detergent solution, rinse in clear hot water, and air dry. (4) Assemble, close door, plug unit in, and cook to 380.	
WHAT	CLEANING. Clean the bulk milk dispenser periodically during use, after each meal, and twice weekly. Defrost when ice has accumulated to 1/4" thick.	
STEP		

HOBART MIXING MACHINE

NAME	OF EQUIPMENT	WHERE FOUND AND USED	WHY USED
Mixi	ng Machine	Is used and found in all Army Nining Facility kitchens.	This machine is used for mixing food products with various attachements for different desired results.

Tell students why
Brief Description: The mixing machine has a motor driven shaft to which various
accessories are attached to mix, beat, whip, or blend. The power of the electric
motor is transmitted to the shaft by V-belts through a gear train. The mixer speeds
may be controlled by a gear shift level or a speed selector. We will be working
with this particular model that has a speed selector. The bowl of this small mixer is
raised and lowered by a lever.

PARTS OF THE EQUIPMENT - ACCESSORIES AND CONTROLS

NAME OF PART	APPEARANCE OF PART	USE OF PART IN THE EQUIPMENT
<u>ACCESSORIES</u>		
1. Beater	 Looks like an arrowhead. Has spokes in between, iron alloy. Hole on the top. Hooks on to something. One side has a stem sticking up. 	The beater is used for mashing potatoes, creaming, reconstitution, meat loaf, casseroles, batters, sauces, and icings. Always start at low speed so as not to bruise the food and then increase as necessary.
2. Hire Whip	 Looks like a bulb. Stainless Steel. Hired. Spacings in between. Connected to a solid base. 	Used primarily to pump air into such foods as egg whites, icings meringues, sauce, and dressings.
3. Pastry Knife	 !Inorthodox arrowhead. Open in the middle. Cutting edge on opposite sides. Attached to base. 	Used for combining flour and shortening. Fxamples are pie doughs and biscuits.
4. Dough Hook	1. Hook shaped. 2. Top shaped like a hall.	It is designed for mixing bread and roll doughs that require folding, rolling, kneading, and stretching action for best development. Such as yeast products, doughnuts, cinnamon rolls, hot rolls, bread.

PARTS OF THE EQUIPMENT - ACCESSORIES AND CONTROLS (CONT)

NAME OF PART		APP	EARANCE OF PART	USE OF PART IN THE EQUIPMENT
CONTROLS				
1.	Starter Switch		Mounted on the left side of the motor head on a rectangular base with a small black switch protruding from it. Shows words OFF - ON.	The starter switch is used to start and stop the motor of the mixing machine.
2.	Lift Lever	1.	Looks like an L-shape lever and has an elhow curve on top and bottom.	Used to lift and lower bowl support.
3.	Bowl Support Stop	١.	Protruding wedge.	Used to stop the upward move- ment of the bowl at the proper point.
4.	Speed Selector		Numbered 1 to 3. Has a stainless steel handle.	Used to regulate or control speed on the machine.

Preoperational Checks Check electrical cord and plug. Have bowl and attachment needed for product to be made. If cord is bad, contact supervisor. It is now ready for use. Operation Position the desired accessory on the accessory drive shaft. Place an empty bowl on the bowl support and raise the bowl into operating position. Check the adjustment of the bowl support stop. Clearance between the accessory and bowl bottom should be ፄ inch. Do not operate the mixing machine with less than 3/16 of an inch clearance between accessory and bowl because the accessory may be damaged or the bottom of the bowl worn away. d. Lower bowl to bottom position. Fill bowl with desired ingredients. Use the correct accessory for the product: For example, use the beater to mash potatoes. Never use the wire whip. Raise the bowl. Set mixing machine on low speed then turn off. Operate the machine at low speed until the ingredients are blended and then set the speed as indicated in the recipe. Starting the mixing operation in low speed prevents ingredients from being thrown out of the bowl. g. Turn the switch to stop after the mixing motion has stopped. Lower the bowl. Remove the accessory from the shaft. Scrape food products out of bowl and off the accessory, into a seperate pan. Set bowl and accessory off to a side to be cleaned. a. Wash the bowl and accessories with a hot detergent 3. Cleaning solution. Rinse with hot clear water, and allow to air-dry. b. Clean the exterior surfaces of the mixer with a damp cloth and dry them with a clean dry cloth.

SAFETY AND CARE

SAFETY

- 1. Never put hands or spoon or spatula into the bowl while the mixer is operating. Failute to heed this precaution may result in severe damage to the machine and very serious injury to the operator.
- 2. No not operate attachments with the motor in a speed higher than second unless the a manufacturer specifies a higher speed.
- 3. If the mixing machine does not function properly or if there is a sigh of shorting or burning, stop the machine, unplug it, and notify the person in charge immediately.

CARE

- Handle the mixer bowls and accessories carefully.
 Do not drag bowls across floors-dented bowls may bend or damage the accessories.
 Hang accessories out of danger immediately after washing. Bent accessories may damage the mixing machine.

HOM	RESULTS
 a. Make sure mixer is unplugged. b. Check the electrical cord and outlet for damage or unsafe condition. c. Check the mixer base, controls, lever, and the bowl and accessories to be used. Note any dents, damage, missing parts, grease, or dirt. If anything is damaged or missing, notify the person in charge. If anything needs cleaning, use the procedures described in #3 below. 	 Mixer, bowl, and accessories are clean and safe to use or the proper person has been notified.
a. Check position of bowl and accessory. 1. Make sure lift lever is down. 2. Position the accessory to be used on the accessory drive shaft and lock into place. 3. Place empty bowl on the bowl support. Move the lift lever up to raise the bowl to operating position. 4. Check to see that clearance between the accessory and the bowl is no less than 3/16" (about 1/4"). If there is not enough clearance, notify the person in charge. 5. If there is enough clearance, lower bowl and remove. b. Operate Mixer 1. Put ingredients into bowl. Place bowl on bowl support. Raise bowl by raising lift lever. (If the accessory is not already locked onto the accessory drive shaft, place in howl with ingredients before raising bowl. When bowl is raised to operating position, lock accessory into place on drive shaft). 2. Plug machine in. Set speed selector at LOW SPEED (#1). Then, switch starter switch to NN position. (If you detect smell of shorting or burning, turn machine off immediately unplug, and notify person in charge). 3. Allow ingredients to mix at LOW SPEED until they are blended. Then, move speed selector to the speed indicated on the recipe card (usually not higher than #2).	
	b. Check the electrical cord and outlet for damage or unsafe condition. c. Check the mixer base, controls, lever, and the bowl and accessories to be used. Note any dents, damage, missing parts, grease, or dirt. If anything is damaged or missing, notify the person in charge. If anything needs cleaning, use the procedures described in #3 below. a. Check position of bowl and accessory. 1. Make sure lift lever is down. 2. Position the accessory to be used on the accessory drive shaft and lock into place. 3. Place empty bowl on the bowl support. Move the lift lever up to raise the bowl to operating position. 4. Check to see that clearance between the accessory and the bowl is no less than 3/16" (about 1/4"). If there is not enough clearance, notify the person in charge. 5. If there is enough clearance, lower bowl and remove. b. Operate Mixer 1. Put ingredients into bowl. Place bow on bowl support. Raise bowl by raising lift lever. (If the accessory is not already locked onto the accessory drive shaft, place in howl with ingredients before raising bowl. When bowl is raised to operating position, lock accessory into place on drive shaft). 2. Plug machine in. Set speed selector at LOW SPRED (#1). Then, switch starter switch to NN position. (If you detect smell of shorting or burning, turn machine off immediately unplug, and notify person in charge). 3. Allow ingredients to mix at LOW SPRED until they are blended. Then, move speed selector to the speed indicated on the recipe card (usually not highe

TEP	WHAT	HOM	RESULTS
2 ONT)		 Mever put hands, spoon, spatula, or anything into the bowl while the mixer is operating. When ingredients have mixed for the required time, turn speed to LOW position and turn switch to OFF. Wait for mixing motion to stop completely. Lower the bowl with lift lever and remove Remove accessory from drive shaft. Use rubber spatula to scrape food from accessory into bowl. Remove mixed food from mixer bowl to a clean container. Set mixer howl and accessory aside for cleaning. 	
3	Cleaning Clean mixer, bowl and accessory after each use.	 a. Make sure mixer is unplugged. b. Mash mixer howl and accessories in hot detergent solution. Rinse well with clear hot water and allow to air dry. c. Clean the exterior of the mixer with a clean damp cloth. Pry with a clean dry cloth. d. Place and store mixer bowl and accessorie in a place where they are not likely to fall or be bent or broken. 	3. Mixer, bowl, and accessory are clean and ready for reuse, no one is hurt, and the equipment is undamaged.
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NOTE. Procedures described are for electric coffee urn which makes 2 gallons of coffee.

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G/E #4

	RESULTS	1. Coffee urn is either clean and safe to use, or the proper person has been notified.	2. Coffee has been brewed and is ready for serving 15 minutes before the meal. (It should not be held longer than 1 hour.) No one has been hurt and the coffee urn is undamaged.
מוני מוני מוני מוני מוני מוני מוני מוני	МОН	a. Make sure coffee urn is unplugged. Check electrical cord and outlet for damage or unsafe condition. b. Check interior and exterior of urn, wire basket, filter to be used, buttons, etc., to make sure all are clean and undamaged. If any parts of the urn are damaged or missing, notify the person in charge. If filter is unusable, get another. If urn or parts are not clean, use the cleaning procedures described in #3 below.	a. Push button to turn coffee urn on; turn temperature control dial to 10. b. Put white paper coffee filter into the wire basket. Measure the amount of coffee grounds needed (6 1/2 ounces of coffee for each gallon of water.) Put the coffee grounds into the filter and set aside until water is at the proper temperature for brewing. c. Check the water temperature gauge. When it reads 2100-212° F, the water is ready for brewing coffee. d. Lift spray arm nozzle and position in center of the wire basket. Push "brew" button. Hot water will begin spraying over the coffee grounds, the light will go off. Swing the spraying over the coffee grounds, the light will go off. Swing the spray nozzle arm into the holding position. f. Wait until all the water has dripped through the coffee grounds. Carefully lift out the wire basket and discard the filter and grounds. Replace the lid on the coffee urn. Rinse wire basket with hot water and allow to air dry. g. Turn temperature control dial down to #5. The water temperature indicator should register 185° F., the correct serving temperature.
	WHAT	1. Pre-Operational Check: Inspect the coffee urn to make sure it is clean and safe to use.	The coffee urn has been used to brew the required amount of coffee.

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	RESULTS	3. Coffee urn is clean and ready for next use. There is I gallon of clean, hot water in in each liner. No one is hurt and the coffee urn is undamaged.
INSPECTING, OPERATING, AND CLEANING THE COFFEE URN (CONT'D)	МОН	a. After Each Use: 1) Be sure "an/off" button is "off", temperature control dial is at #1, and coffee urn is unplugged. 2) Drain all brewed coffee from liners after serving period and throw away. Rinse and scrub liners theroughly with clear hot water (no detergent). Continue to run hot water through liners until water runs clear. Leave I gallon of clean, hot water in each liner. Rinse lid and replace on urn. b. At End of the Day: 1) Same as "a.1) above. 2) Drain all brewed coffee and throw away. Rinse liners thorougly, with clean, hot water. Put 1/4 cup of mild detergent solutions into 2 gallons of hot water. Put 1/4 cup of mild detergent solutions into 2 gallons of hot water. Rinse thoroughly with hot water, making sure all long-bandled brush. Rinse thoroughly with hot water, and allow to air dry. 2) Drain all brewed coffee and throw away. Rinse liners that water and allow to air dry. 3 gallon of clean, hot water in each liner. Scrub and rinse wire basket with hot water and allow to air dry. 2. Iwice Weekly: 1) Fill each liner 3/4 full of water. Add 1/4 cup of Trisodium Phosphate or 1/4 cup of mild dishwashing detergent. Turn heat on and heat for 30 minutes. 2) Turn heat off and unplug the urn. 3 Drain of cleaning solution into a separa be container. Disassemble and thoroughly scrub faucet valves, shanks, gauge glass, etc. with a long, thin brush and the cleaning solution. Thoroughly rines all parts with hot water and reassemble. 4) Scrub insides of liners with a long-handled brush. Thoroughly rines in hot washed away and water is drinkable. Leave I gallon of clean hot washed away and water is drinkable. Leave I gallon of clean hot
	WHAT	Maintenance:

MEAT SLICING MACHINES

NAME OF EQUIPMENT	WHERE FOUND AND USED	WHY USED
Meat Slicing Machine	Is used and found in Army dining facility kitchens.	Allows person to slice food products up to 7" in diameter, 1" wide, and 3" thick.
	BRIEF DESCRIPTION	
	An electric motor drives the revolving circular knife. The table is pushed back and forth by hand. The slicer cuts food up to 7-11-3. The slicing machine consists of:	. The table is pushed back and forth by hand ne consists of:
		a. Slicing assembly or chute
		b. Body assembly
		c. Drive assembly (Motor)

PARTS OF THE EQUIPMENT - CONTROLS

NAME OF PART	APPEARANCE OF PART	USE OF PART IN THE EQUIPMENT
1. Table Adjust- ing Knob	 Round hard grip with grooves. Base plate has numbers and notches. Located at the front of the slicer mounted on the body. 	Regulates the distance between the table and the knife; this spacing determines slice thickness. Low number indicates thin slices, high number for thicker slices.
2. Toggle Switch	 Mounted under the table adjusting knob. Small hole with a switch protruding out of it. 	On and off switch for the motor that drives the blade.
3. Sharpener Controls	 Two grinding stones set at different angles. Has a safety or protective cup over it. Has pull-out knobs and a short handle 	Used to sharpen blade when needed.
		A-79

OPERATION

WHAI	HOM	RESULTS
1. Pre-op Checks	 Make sure knife guard is securely in place. Make sure the chute is at a proper height and the chute support nut is tight. 	Slicer is now ready for operation.
	3. Make sure the center plate is tightly secured.	
2. Operate	1. Plug unit in. 2. Pull the chute as far as it will go towards the operator. 3. Place food item in the chute and swing the end weight into place. Be sure that the teeth of the end weight grip the food firmly. The end weight must be used when slicing food. 4. Set the table adjusting knob to its appropriate setting (desired slice thickness). 5. Face the slicing machine and turn the toggle switch to "on" position. 6. Grasp the chute handle firmly with the right hand and slide the chute back and forth across the table and knife. Cut completely through food before retrieving.	Slicing machine in operation, receiving desired results.
3. Shut-down Procedures	 Turn toggle switch to off position and set table, adjusting knob to zero. 	

OPERATOR MAINTENANCE

1. Cleaning WHAT

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RESULTS

1. Always unplug the machine before cleaning it.

2. REMOVING COMPONENTS:

a. Loosen the chute support nut and remove the chute from the receiver.

b. Slide the waste box out of its rack.

c. With the table adjusting set at zero, remove bolt located at the bottom of the knife guard. Loosen but do not remove the nut at the top of the knife guard up and out of the fork, being careful to avoid contact with the blade.

G/E #5 - INSPECTING, OPERATING, CLEANING THE MEAT SLICER

STEP WHAT	МОН	RESULTS
1. CHECK CHECK Inspect the meat slicer to make sure it is clean and safe to use.	a. Make sure meat slicer is unplugged. Check electrical cord and outlet for damage or unsafe condition. b. Check the slicing assembly, or chute, body assembly, drive assembly, controls, waste box, etc. to make sure all parts are present, undamaged, and clean. If any parts are missing, loose or damaged or anything is unsafe to use, notify the person in charge. If any parts of the machine are not clean, use the cleaning procedures described in #3 below. c. Make sure the knife quard is securely in place, the chute is at a proper height, the chute support nut is tight, and the center plate is tightly secured.	l. Meat slicer is clean and safe to use or the proper person has been notified.
2. OPERATION Use the meat slicer to slice food.	a. Plug meat slicer in. b. Pull the <u>chute</u> as far as it will go toward you. c. Place food item in the chute and swing the end weight into place. Be sure that the teeth of the end weight grip the food firmly. (End weight must always be used. Never hand feed food.) d. Set the table adjusting knob to the appropriate setting (desired slice thickness). e. Face the slicing machine and turn the <u>toggle switch</u> to "on". f. Grasp the <u>chute handle firmly</u> with the right hand. Slide the chute back and forth across the table and knife. Cut completely through the food before retrieving. g. After food is sliced, turn the <u>toggle switch</u> to "off" and set the <u>table adjusting knob</u> to zero.	2. Food has been cut into even slices of the proper thickness, no one is hurt, and the meat slicer is undamaged.

G/E #5 - INSPECTING, OPERATING, CLEANING THE MEAT SLICER (CONT'D)

RESULTS	3. Meat slicer is clean and ready for reuse. No one is hurt and meat slicer is undamaged.	A~83
мон	a. AFTER EACH USE: (1) Unplug the meat slicer. (2) Remove components for cleaning. a) Loosen the <u>chute support nut</u> and remove the chute from the receiver. b) Side the <u>waste</u> box out of its rack. c) Set the table adjusting knob at zero. Remove bolt at the bottom of the knife guard. Lift the halves of the knife guard up and out of the knife guard up and out of the knife guard. Lift the halves of the knife guard up and out of the knife guard. Lift the halves of the knife guard up and out of a track components in hot, detergent solution. Scrub waste box with stiff brush to remove grease. Sinse all components thoroughly with clean hot water and allow to air dry. (4) Mash exterior of machine and knife with clean cloth dampened in clear hot water. Dry with clean dry cloth. PAY PARTICULAR ATTENTION TO HOW YOU CLEAN THE KNIFE. WASH FROM CENTER OF AVOID ACCIDENTALLY TOUGHING EDGE. (5) Replace the dry components on the machine in the following order: a) Knife guard b) Waste box c) Chute b. PERIODICALLY: (1) Lubricate the <u>slide rod</u> weekly with a small amount of mineral oil. (2) Sharpen the knife when necessary (follow manual directions). (3) Completely disassemble machine for cleaning (follow manual directions for removing knife blade, sharpener sones, etc.).	
WHAT	CLEANING: Clean the meat slicer after each use. Keep clean, sharp, and lubricated.	
STEP		

INSPECTING, OPERATING, AND CLEANING THE DEEP FAT FRYING MACHINE

NOTE: Procedures described are for gas deep fat fryer.

RESULTS	 Deep fat fryer is clean and safe to use or the proper person has been notified. 	2. Food has been cooked in the deep fat fryer, no one is hurt, and fryer is undamaged, used fat is filtered and stored in the refrigerator for the next day's use.	A-85
HOM	a. Make sure the main gas valve and the combination gas control valve are "off". Smell for gas. See if pilot is lit. If you smell gas, do not attempt to light. Notify the person in charge. b. Examine the deep fat fryer exterior, controls, fat container, fry basket, burner holes, etc. Check to see if anything is missing, damaged or not clean. If the machine or any part is damaged or unsafe to use, notify the person in charge. If anything needs cleaning, use the procedures described in No. 3 below.	a. Lighting: (1) Close drain valves. Slowly and carefully pour liquid fat into fat container to the proper level. (Solid fat should be melted prior to filling container.) (2) Be sure thermostat and combination gas control valve are set on "off" (4) Light a taper. When the taper is burning steadily, turn the comput the flame to the pilot opening to light the pilot. Continue pressure and hold 30-45 seconds. If pilot doesnpt light or remain lit, turn dial to OFF and wait about 5 minutes for the gas to clear before attempting to relight the pilot. (5) When pilot is burning stadily, turn the combination gas control dial to ON. Check to see that the burner is lit. Set thermostate to the required temperature. (6) Allow fat to heat 10-15 min. to read the required temperature. (7) Allow fat to heat thoroughly before attempting to relight.	
WHAT	Preoperational Check: Check the deep fat fryer to make sure it is clean and safe to use.	Use the deep fat fryer for cooking.	
STEP	<u>-</u>	2	

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MACHINE
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STEP

	INSPECTING, OPERATING, AND CLEANING THE DEEP FAT FRYING MACHINE (CONT'D)	
WHAT	ном	RESULTS
	b. Frying:	
	(1) Put food items to be fried into wire basket. Do not load the basket too full. (Large quantity chills the fat)	
	(2) Lower basket slowly into the hot fat. (Lowering too quickly chills the fat.	
	(3) When cooking french fries, shake basket occasionally to insure even browning.	
	(4) During standby periods, turn the thermostat to 250°. For temporary shut down, turn the combination gas control valve to PILOT.	
	c. End of Day's Frying:	
	(1) Turn the combination gas control valve and the thermostat to OFF. Close the main gas valve.	
	(2) Drain fat (fryer equipped with filter).	
	a) Place filter in holder/china cap and attach to container. Position container under drain valve.	
	b) Open drain valve slowly (to avoid splashing hot fat).	
	c) After all fat has drained, remove and discard paper filter.	
	(3) Lightly cover container of fat with clean cloth. Allow to cool to room temperature. Store in refrigerator.	
	NOTE: Add fresh fat every day. AT least 15% of the fat should be fresh. Remove enough fat from the previous day's operation to make room for the fresh fat. (Revitalizes used fat and keeps it from breaking down.)	

INSPECTING, OPERATING, AND CLEANING THE DEEP FAT FRYING MACHINE (CONT'D)

RESULTS	3. Deep-fat fryer is clean and ready for reuse, no one is hurt, and the fryer is undamaged.	-87
МОН	a. After draining the used fat, flush out food particles off the sides of the container with a little hot fat. Allow to drain off. b. Close drain valves. Fill the fat container with a hot detergent solution. c. Light or turn on the fryer. Set the thermostat at its highest setting until solution reaches foiling point. Turn thermostat down to 250° and allow solution to simmer for 10 minutes. d. Drain off a bucketful of solution and use it to scrub the basket support ledges and insides about the solution with a brush. e. Drain off the rest of the detergent solution. f. Fill the container with clear hot water. Bring to a boil. Turn down and simmer for 10 minutes. g. Turn thermostat control knob to 0FF. Close main gas valve. h. Open drain valve. As hot clear water drains, scrub sides of fat container with a clean brush. Leave drain valves open so air can circulate. Place cover on fryer. i. Soak and scrub fry baskets in hot detergent solution. Rinse well in hot clear water. Allow to air dry. j. Wash all exterior surfaces of the fryer with a hot detergent solution, rinse with clear hot water, and wipe with a dry cloth.	
	day's	
WHAT	Cleaning: Clean the fat fryer after the operation.	
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INSPECTING, OPERATING, CLEANING/MAINTENANCE OF THE GAS GRIDDLE

ہ ا		RESULTS . The gas griddle is
	is lit. If you smell gas, do not attem perature control knob, griddle plate, a trawth"). Make sure they are there, un y part is so damaged it is unusable, no f any part is dirty or greasy, clean, u ibed in #3 below.	either clean and safe to light and use or the proper person has been notified.
a. Light 1) Fin 2) Light 2) Light 3) Pre sta rel 1) Tur to pre 2) Tur to pre 1) Use 2) If use, (keep	the pilot: the pilot light opening under the griddle plate. the pilot light opening under the griddle plate. that a taper stick or tightly rolled piece of paper and place burning end at the pilot light opening. she temperature control knob in (do wat turn it). Hold knob in for 30-45 seconds. If the pilot does not light or lit, wait 5 minutes for gas to clear before attempting to ght the pilot. the temperature control knob to "high". Allow the griddle eat at "high for 10 minutes. the temperature control knob to "high". Allow the desired at the temperature control knob down to the required temperature control knob down to the required temperature control knob down to the required temperature control knob down to the griddle plate during grange to push excess grease trough. scraper to push excess grease trough.	2. Gas griddle is lit, preheated, and ready for use in cooking food before and/or during a meal. Food is cooked on the griddle, no one is hurt, and the gas griddle is undamaged.
d. Tem tur	up and then, scrape it and the loosened buildup comming the greater trough opening. Temporary Shut Down: When griddle is not in use, turn the temperature control knob to "off". Do not put the pilot light out.	A-89

INSPECTING, OPERATING, CLEANING/MAINTENANCE OF THE GAS GRIDDLE

RESULTS	3. Gas griddle is clean and ready for reuse. No one is hurt and the gas griddle is undamaged.
NON	a. Cleaning After Each Meal: 1) Check to be sure the temperature control knob is on "off". (However, the griddle plate should be cleaned while it is still hot). 2) Scrape surface particles, grease, etc., to the grease trough opening so the griddle plate is as free as possible of debris. 3) Pour a small amount of alneral oil on the griddle plate. Put a "grill stone" or "will screen" on the oil and rub onto the grill plate surface. Rub with the "grain" of the griddle plate. If you don't see the grain, rub front to back, back to front, back and forth. Do not use a cifcular motion. (Never use a hot detergent solution to clean the griddle plate.) 4) Remove the grease trough and discard contents in the appropriate container. Scrub grease trough in hot, detergent solution, using a clean discential in hot water and invert on sink drain to air dry. 5) Wash down splater shelds and exterior surfaces of the gas griddle (not the griddle plate) with a detergent solution, using a clean discential solution to the griddle plate) with a detergent solution, using a clean discential surface with a dry, clean disposable cloth. 7) Repasson the griddle plate. Turn off and allow to cool (to touch). Rub the surface with a dry, clean disposable cloth. 8) Initial Seasoning. 1) Use a hot detergent solution (the only time it is ever used on a griddle plate) to wash the manufacturer's grease off the griddle plate with clear hot water and dry with a clean disposable cloth. 2) Cost the griddle plate with common table sait. Heat then at 3500 - 4000 for one hour. Turn off and allow to cool completely. Remove the solution a clean cloth or soft brush. (This process seals the pores of the griddle plate and prevents food from sticking to it).
WHAT	Maintenance: Clean the gas griddle and resea- son the griddle plate after each meal. Use special seasoning proce- dures before using a new gas griddle.

	RESULTS	i. The convection oven is clear and safe to use or the proper person has been notified.	2. Oven has been used for cooking, no one is hurt, and the oven is undamaged.	A-91
G/E #8 INSPECTING, OPERATING AND CLEANING THE CONVECTION OVEN	ном	a. Make sure the gas control dial is on OFF. Smell for gas. If you smell gas, do not attempt to light the pilot. Notify the person in charge. b. Check outside and insides of oven, racks, fam, seal around door, controls, etc., for damage and grease or dirt. If any part of the oven seems damaged or unsafe to use, notify the person in charge. If any thing needs cleaning, use the procedures described in #3 below.	a. Lighting: 1) Light a taper or thinly rolled paper. Turn gas control dial to P1LOT. Place burning end of taper in pilot light opening. Push gas control dial in. Hold for 30-45 seconds until pilot lights and burns steadily. Turn pilot control dial to on position. 2) If pilot does not light or stay lit, turn gas control dial to OFF. Wait for 5 minutes for gas to clear before attempting to relight the pilot. b. Setting: 1) Turn the thermostat control to the required temperature. 2) Turn on power switch. Fan will turn on and oven will begin to heat c. Opening Door: When opening oven door during cooking step back. c. Opening Door: When opening oven door during cooking step back. d. Shut Down: Turn gas control dial to OFF and turn power switch OFF.	
MOTE: The procedures below are for gas-type convection oven.	MHAT	l. Pre-operational Check: Inspect the convection oven to make sure it is clean and safe to use.	2. Operation: Use the oven to cook foods.	

	RESULTS	3. Convection oven is reuse, no one is hurt, and oven is undamaged.
INSPECTING, OPERATING AND CLEANING THE CONVECTION OVEN (CONT'D)	МОН	a. Cleaning After Each Use: 1) Make sure oven is shut down and has cooled 2) Wipe oven with a cloth dampened with water and a mild detergent solution; wipe with cloth moistened with clean warm water. 1) Make sure oven is shut down and has cooled. 2) Remove racks and side rack holders. Wash in a mild detergent solution. Scrub with a stiff brush. Rinse well in hot water and and allow to air dry. 3) Scrub with stiff brush dipped in mild detergent solution. Rinse by wiping with clean disposable cloth dampened with clear hot water. Wipe dry with clean disposable cloth. 4) Replace dry rack holders and racks. Close door. 5) Wash outside of oven and door, inside and out, with cloth dampened in detergent solution. Rinse by wiping with cloth dampened in clear hot water. Wipe dry with clean dry disposable cloth.
	WHAT	3. Cleaning: Clean convection oven after each use and weekly.

NE) RESULTS	1. Taylor Freezer is clean and ready for use. Or, if it has been found to be damaged or to have parts missing, the person in charge has been informed.	2. Soft serve ice cream is proper temperature and consistency, draws easily from either soft-serve or shaketype draw valve. No one is hurt and the equipment is undamaged.
INSPECTING, OPERATING, AND CLEANING THE TAYLOR FREEZER (ICE CREAM MACHINE) HOW	 a. 1) Insure all parts are present and clean. 2) Insure machine is clean. b. To Assemble: 1) Apply Taylor Lub to bearing surface and seal ring of beater drive shaft and insert shaft through rear shell bearing with mexagon end seated firmly in drive socket of gear unit. 2) Install scraper blades in blade holders on beater frame with cutting edge toward outside and pins through holes in end of blades. 3) Holding blades in place, insert beater into freezer shell with drive bar over flattened surface of beater drive shaft and all the way back. 	4) Lubricate and position freezer door gasket and bearing sleeve on door. 5) Position freezer door gasket and bearing sleeve on door. 6) Position freezer door over studs around freezer opening and install hand screws. Tighten bottom screws first to provide positive seal. 7) Sanitize freezer using solution containing 2 tablespoons of Clorox to 2 gallons of cold water and drain thoroughly. a. Pośsition mix feed assembly into hopper. Pour remaining mix into hopper. Do not go over top of mix feed assembly within 1/4". b. Put 2 quarts of ice cream mix in hopp
WHAT	1. Pre-Operation Check: Inspect the machine to make sure it is clean, operational, and safe to use.	2. <u>Operation:</u> Fill and operate the machine.

INSPECTING, OPERATING, AND CLEANING THE TAYLOR FREEZER (ICE CREAM MACHINE) -- CONT'D.

RESULTS	ar. Interior of freeze, no one is hurt, and equipment is undamaged. Interior of freeze, no one is hurt, and equipment is undamaged. Interior of freezer.
HOME THE STATE OF STREET, STATE OF STATE OF STATE OF STREET, STATE OF STA	Elosing and Cleaning Procedures: ** Move switch to wash position b. Let run for 10 minutes. c. Dain mix out and discard. d. Turn off. e. Remove hopper feed assembly; set aside to be cleaned later. f. Pour 2 gallons of lukewarm water into hopper. g. Turn on wash position and let run for 5 minutes. h. Drain milky water out and discard. f. Turn off. g. Turn off. l. Fill hopper with 2 gallons of warm water, turn on, scrub interior of hopper with stiff brush, drain, and discard. Turn machine off. l. Pour 1 gallon of water/Clorox mixture in hopper; set aside remaining gallon for later use. m. Turn machine on; scrub interior of hopper with stiff brush. n. Drain and discard Clorox, water mixture. o. Turn machine off. o. Turn machine off. g. Disassemble Taylor Freezer and scrub all parts in Clorox solution and set aside to air dry. g. Prior to next use: Assemble Taylor Freezer. Sinse with water Clorox solution to sanitize Taylor Freezer. Sinse with water Clorox solution to sanitize Taylor Freezer.
22/2017	the Taylor (ice cream directly ach use. ean at all

INSPECTING, OPERATING, AND CLEANING THE CENTER-FIRED GAS RANGE/OVEN

01# 3/9

RESULTS	 Center-fired gas range/ oven are clean and safe to use or the proper person has been notified. 	2. Center-fired gas range/ oven have been used for cooking, no one is hurt, and the equipment is undamaged.	A-95
ион	 a. Make sure all gas valves are in OFF position. Smell for gas. If you smell gas, notify the person in charge. b. Check top of range, plates, rings, burner holes, control panel, outside of range, oven door and seal, inside of oven, racks, etc. Note any damage, missing parts, grease, or dirt. If anything is missing or damaged, notify the person in charge. If anything needs cleaning, use the procedures described in #3 below. 	a. Lighting Range Top: 1) Remove center plate with the tool provided with the range. 2) Light taper stick and when burning stadily, place burning end in pilot area of center burner. Turn main gas lever on. Then, turn the pilot-gas reulating valve to on. The pilot jight immediately. If it doesn't light or stay lit, turn gas valves to OFF. Wait 5 minutes for gas to clear before attempting to relight the pilot sure burner lights. Open other burner valves one at a time, making sure each lights before opening the next. 4) Replace center plate with tool. b. Controlling Top Heat: 1) Allow top burners to remain at high settings for a little while to preheat the plates. 2) After plates are preheated, turn regulating valves to lower heat to required cooking temperature. (Do not overheat plates.) c. Lighting Oven: 1) Open oven door. 2) I that taper stick and place in opening for pilot light.	3) Chan oven gas-regulating valve. Push pilot reset button in and hold in for 30-45 seconds. Pilot should light and stay lit when reset but-ton is released. If it does not, turn valve to OFF, wait 5 minutes for gas to clear, and repeat the procedure. 4) With the pilot is burning steadily, turn the thermostat to the required temperature for conting.
HHAT	1. Pre-Operational Check: Inspect the range top and oven to make sure it is clean and safe to use.	2. Operation: Light the range and/ or oven and use for cooking food.	

INSPECTING, OPERATING, AND CLEANING THE CENTER-FIRED GAS RANGE/OVEN (CONT'D)

	RESULTS	and oven 3. Center-fired gas range/ oven is clean and ready surface th mineral idsposa- idsposa- idampened indampened indampened thurt, and the equipment idampened i
נוסיב בנונותין כן באחוזיותי חיים כבבחתיותי וווב כבתובה-ייהבט שם אחתב/ סיבון (כסיו	МОН	a. Turn all gas valves and main gas lever to OFF. Allow range and oven to cool completely. b. Remove center plate, center ring, outer plates. Scrape off surface particles with pastry knife or scraper. Clean by rubbing with mineral oil and a grill stone or grill screen. Rub dry with a clean disposable cloth. (Do not use water on plates.) c. Wipe back plate, exterior portion (other than plates) with disposable cloth dampened with hot detergent solution. Wipe with cloth dampened in clear hot water. Wipe dry with clean dry disposable cloth. d. Remove over racks, bottom plate of oven. Scrub in hot detergent solution; rinse well in clear, hot water, and air dry. e. Wash down sides of oven with disposable cloth dampened in detergent solution. Wipe down with cloth dampened in clear hot water. Wipe dry with clean dry disposable cloth. f. Replace clean, dry racks and bottom plate. g. Clean exterior of oven as exterior portions of range (other than the cast iron rirtions). g. Clean exteriors.
	MHAT	3. Cleaning: Clean the gas range top and oven after use.

94B STUDENT REACTION SURVEY

JM (C	:: _		LLASS:
HEF	E TR	AI NE ():
you	have	had	items are designed to find out your reactions to the cook's training so far. Please respond to each item as completely and accurately as do NOT wish you to put your name on this form.
Ι.	thes	e sca the fo Place	ing scales are provided (this page and the next page). You are to use ales to rate your willingness (W) and ability (A) are to perform each ollowing responsibilities. To make your ratings, do the following: e a check mark (\checkmark) on the (W) scales (that is, the line that appears ide the alphabetical letters) for all of the items that you are willing of the state of th
	b.	item	you have finished checking the (W) scale, then go back and read the sagain. Indicate on the (S) scales (that is, the line that appears de the alphabetical letters) your numerical rating that applies. If you think that you cannot do a given task, then you should rate
		•	them $\underline{0}$ on that item.
		(2)	If you think that you can do the task a <u>little bit</u> , then you should rate them a \underline{l} .
		(3)	If you are of the opinion that you can do the task somewhat, then you should rate them a $\underline{2}$.
		(4)	If, in your opinion, you can do a task <u>very well</u> , then you should rate them a $\underline{3}$.
	(S)	0 =	cannot do = little 2 = somewhat 3 = very well
	(W)	0 =	can't do = little 2 = somewhat 3 = very well

Ā	<u>s</u>	
	ı)	read recipe cards and do what they say.
t) Prep	are standard (not fancy) army food items so they have:
		the proper taste and flavor
		the proper consistency and texture
		the proper appearance
		the proper garnish
	:)	prepare and maintain a sanitary, well-organized work area
d	I)	use proper sanitation and safety procedures
e	.)	use "clean as you go" procedures
1	·)	prepare food items without wasting ingredients or supplies
9) Use	a knife properly to:
,		slice shred cube dice chop mince
t) Use	proper procedure to:
		weigh different kinds and amounts of dry ingredients
		measure different kinds and amounts of liquid ingredients
i) Use	proper procedure to prepare:
		soups salads basic sauces
1) Use	proper procedure to prepare standard (not fancy) bakery items:
		quick breads cookies cakes rolls pies
i) Use	proper procedure to prepare meats, poultry, and fish by:
		baking roasting frying braising stewing or boiling
1) Star	t, operate, and maintain garrison equipment:
		mixer slicer coffee urn milk dispenser oven
		deep fat fryer
n	ı) Expl	ain the purpose of each piece of garrison equipment and the function
	of e	ach major part:
		mixer slicer coffee urn milk dispenser oven
		deep fat fryer

	<u>s</u>		
	n)	convert any recipe to the amo	unts needed to serve different numbers
		of soldiers	
<u> </u>	o)	ask the right questions to fi	nd out how to prepare/serve a food ite
	p)	ask the right questions to fi	nd out how to operate and maintain a
		piece of equipment	
	For any	of the items indicated above t	hat you are not confident you can do
	(rating	of 0 or 1) indicate below your	reasons for rating the items.
	Item # _		
	Item #		
		·	1
	_		
	Item #		
	Item #		
	If you h	ad a choice, which cook's task	s would you have liked to have worked
	with lan	iger? To answer this question	do the following:
	WICH TON		
		e tasks below in column A.	
		c tasks below in column A. <u>Column A</u>	Column B
	List the	•	
	List the	Column A	Column B
	list the	Column A	
	List the a b c	Column A	

0 = never happened 1 = seldom happened 2 = sometimes happened
 3 = often happened 4 = always happened
a. Before each lesson, I was told what I was going to learn and why I needed to learn it.
b My instructor demonstrated each thing I was to learn.
c My instructor made sure I understood what to do before I actually did it.
d I was told not only what I needed to <u>correct</u> but also what I was doing that was <u>right</u> .
e My instructor had me learn the <u>reasons</u> for doing things in a particular way.
f I was asked to explain what I was learning.
g During class, I was encouraged to share my ideas with other students.
h I was treated with respect by my instructor.
i Time was wasted doing nothing or doing things that did not help me learn.
j When I didn't understand something, my instructor took the time to help me understand without "putting me down."
k I was able to read and understand the written materials I was given.
1 The instruction was too fast for me to follow what was going on.
m The instruction was too slow and I got bored.
What four (4) changes would you like to see made in your training?
If you do not think anything should be changed, then put N/A on this line
a c
b d

e. Now go back and rate the importance of the changes which you would like to see made in the training. Place a "l" beside the most important change, a "2" beside the next, etc.

94BH INSTRUCTOR'S REACTION SURVEY

INS	TRUC1	TOR E	KPERI ENCE	·	·	
TRA	ININ	G LOCA	ATION:			/EARS AS AN ARMY COOK:
you i te	have m as	e jusi comp	t trained	and to the 948	training program	nctions to the 94B students n. Please respond to each NOT wish you to put your
1.	the: are	se sca to pa	ales to ra	ate what you th	nink <u>your trainees</u>	e next page). You are to use it willingness (W) and ability ities. To make your ratings, d
	a .	outs	ide the a		tters) for all of	nat is, the line that appears the items that you think your
	b.	item	s again.	Indicate on th	ne (S) scales (tha	e, then go back and read the at is, the line that appears cal rating that applies.
	÷	(1)	should r	ate them <u>O</u> on 1	that item.	do a given task, then you
		(2)	-	nink that your ld rate them a		the task a <u>little bit</u> , then
			-	re of the opinion should rate the		inees could do the task <u>somewha</u>
			If, in y		our trainees could	d do a task <u>very well</u> , then
(5)	0	= ca	nnot do	l = little	2 = somewhat	3 = very well

(W)	0 = can't do = little 2 = somewhat 3 = very well
'	S
a)	read recipe cards and do what they say
_ b)	Prepare standard (not fancy) Army food items so they have:
	the proper taste and flavor
	the proper consistency and texture
	the proper appearance
	the proper garnish
_ c)	prepare and maintain a sanitary, well-organized work area
_ d)	use proper samitation and safety procedures
_ e)	use "clean as you go" procedures
_ f)	prepare food items without wasting ingredients or supplies
_ g)	Use a knife properly to:
	slice shred cube dice chop mince
h)	Use proper procedure to:
	weigh different kinds and amounts of dry ingredients
	measure different kinds and amounts of liquid ingredients
i)	Use proper procedure to prepare:
	soups salads basic sauces '
j)	Use proper procedure to prepare standard (not fancy) bakery items:
	quick breadscookiescakesrollspic
k)	Use proper procedure to prepare meats, poultry, and fish by:
	baking roasting frying braising stewing boiling
_ 1)	Start, operate, and maintain garrison equipment:
	mixer slicer coffee urn milk dispenser
	deep fat fryer
m)	Explain the purpose of each piece of garrison equipment and the fund
	of each major part:
	mixer slicer coffee urn milk dispenser
	deep fat fryer

	n) convert any recipe to the amounts needed to serve different numbers of soldiers
~	o) ask the right questions to find out how to prepare/serve a food ito p) ask the right questions to find out how to operate and maintain a piece of equipment
2.	How would you compare the ICI <u>instructor</u> training program you were involved in, to other Army training programs you have participated in? Rate each of the following criteria using the rating scale below.
	1 - much poorer 2 - poorer 3 - same 4 - better 5 - much better
	<u>Criteria</u> :
	a The organization and sequencing of what was to be learned.
. ·	b The percentage of the program that was directly relevant to <u>your</u> responsibilities.
	to your current (or future) responsibilities.
	d The degree to which the training program created a desire on your part to apply what you learned to your responsibilities.
	e The amount of training time spent on relevant issues.
	f The amount of confidence you developed from the training in your ability to produce better results in your responsibilities.
3.	What priority rating would you give to training Army instructors in the ICI Strategies? Check one.
	tophighMediumlowbottom
	What are your reasons for this rating?

•	in the ICI Strategies? tophighmediumlow	
	What are your reasons for this rating?	DOCCOM
5.	. What are the major <u>advantages</u> of the ICI Strategies for: Army instructors?	
	Their students?	
	Instructional Leaders?	
6.	5. What do you think are the major <u>disadvantages</u> of the ICI St Army instructors?	trategies for:
	Their students?	
	Instructional Leaders?	

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APPENDIX B

DATA TABULATION AND SUMMARY

Appendix B DATA TABULATION AND SUMMARY

Index to Data Tables

Section 1 - Combined Ratings

Summary Data

Summary of all data about each group in each cycle of the evaluation.

Student Achievement

Combined ratings for each group in each cycle showing the number and percent of students whose performance was rated above, at, or below the Minimum Acceptable Level (MALP).

•	Garrison	Equipment Pag	ge B-18
	Totals	for each group showing performance above,	
	at, or	below MALP during the evaluation of com-	
	petency	with garrison equipment	

Frequency Distribution of Rating Scores
Students were rated on a scale of 0 to 4 that represented performance at the desired level of performance (4); above the minimum acceptable level of performance (3); at the minimum acceptable level of performance (2); below the minimum acceptable level of performance (1); or did not do (0). These data show how many students in all groups were rated at each level of the rating scale.

- Garrison Equipment By Item Average Page B-28
 Frequency of rating scores, based on the average rating, for the individual items of garrison equipment on which student competency was evaluated.
- Garrison Equipment By Item Total Page B=29
 Frequency of rating scores based on total of in dividual ratings for each item of garrison equip ment on which student competency was evaluated.

Combined Ratings

These data show the total scores earned by each group (TOT); the number of students in each group rated (N); the average rating score (AVG); and the percent of the possible score achieved(%) by each group in each cycle.

- Garrison Equipment by Equipment Item Page B-38 Combined ratings for the evaluation of student competencies on each item of garrison equipment.
- Garrison Equipment by Task Competency Page 8-39
 Combined ratings for the evaluation of student competency on groups of criteria by skill demonstrated in using garrison equipment.
- Perceptions of Competency...... Pages B42-B43
 Combined ratings for the students' own ratings of
 their perceived competencies in task performance.
- Reactions to the Training Program Pages B44-B45 Combined ratings for the students reactions to and perceptions of the training program.

Small Quantity Cooking Combined Ratings
Combined ratings for both groups in each cycle on the completion tasks, procedures, and confidence/attitude indicators evaluated in small quantity cooking only.

Small Quantity Baking Combined Ratings
Combined ratings for both groups in each cycle on the completion tasks, procedures, and confidence/attitude indicators evaluated in small quantity baking only.

Section 2

Tabulated Data from Cycle 1 Groups Starting Training 15 July 1981

and

Section 3

Tabulated Data from Cycle 2
Groups Starting Training 19 August 1981

Summary Data

Student characteristics and summary of individual student ratings on all areas of training evaluated.

• Student Characteristics..... Cycle 1--Pages B56-B57
Cycle 2--Pages B94-B95

Individual student totals and averages for each item used to define student characteristics.

• Percent of Total Scores Cycle 1--Pages B58-B59 Cycle 2--Pages B96-B97

Summary of the total rating scores for each individual student showing the percent of possible score achieved.

• Summary by Task Cycle 1--Pages B60-B61 Cycle 2--Pages B98-B99

Summary of the raw scores by individual student for each task evaluated.

Frequency Distribution of Rating Scores

Students were rated on a scale of 0 to 4 that represented performance at the desired level of performance (4); above the minimum acceptable level of performance (3); at the minimum acceptable level of performance (2); below the minimum acceptable level of performance (1); and did not do (0). These data show how many students were rated at each level of the rating scale.

• Completion Tasks--Food Items..... Cycle 1--Page B 62 Cycle 2--Page B100

Frequency of rating scores on each food item in small quantity cooking and baking combined.

• Completion Tasks--Criteria..... Cycle 1--Page B 63 Cycle 2--Page B101

Frequency of rating scores on each criterion used to evaluate food items in small quantity cooking and in small quantity baking.

cooking.

Cycle 1--Page B 64 Cycle 2--Page B102 • Procedures Frequency of rating scores on each criterion used to evaluate procedures followed by students in preparing a food item in both small quantity cooking and small quantity baking. • Confidence/Attitude Indicators Cycle 1--Page B 65 Cycle 2--Page B103 Frequency of rating scores on each of the confidence/ attitude indicators evaluated in a student when preparing an item in small quantity cooking and baking. • Cooking Skills Cycle 1--Page B 66

Cycle 2--Page B104 Frequency of rating scores on each skill evaluated. • Recipe Conversion Cycle 1--Page B 67
Cycle 2--Page B105 Frequency of raw scores attained by each group in the evaluation of problems in recipe conversion. • Garrison Equipment by Item Cycle 1--Page B 68
Cycle 2--Page B106 Frequency of rating scores for each piece of garrison equipment on which students were rated. • Garrison Equipment by Criteria Cycle 1--Page B 69
Cycle 2--Page B107 Frequency of rating scores for each criterion used to evaluate student knowledge of garrison equipment. Small Quantity Cooking Individual Student Scores Cycle 1--Pages B 70-B 71 • Completion Tasks Cycle 2--Pages B108-B109 Individual student ratings for the 3 criteria used to evaluate the completed food item of the 4 items on the small quantity cooking menu. Cycle 1--Pages B 72-B 73 • Procedures Cycle 2--Pages Bl10-Bl11 Individual student ratings for the 11 criteria used to evaluate the procedures followed by students in the preparation of one item on the menu of small quantity cooking. • Confidence/Attitude Indicators... Cycle 1---Pages B 74-B 75 Cycle 2---Pages B112-B113 Individual student ratings for the 5 confidence/ attitude indicators evaluated during the preparation of one item on the menu of small quantity

Small Quantity Baking Individual Student Scores

• Cycle 1--Pages B 76-B 77
Cycle 2--Pages B114-B115

Individual student ratings for the 3 criteria used to evaluate the completed food item of the 5 items on the small quantity baking menu.

• Procedures Cycle 1--Pages B 78-B 79
Cycle 2--Pages B116-B117

Individual student ratings for the 11 criteria used to evaluate the procedures followed by students in the preparation of one item on the menu of small quantity baking.

• Confidence/Attitude Indicators ... Cycle 1--Pages B 80-B 81 Cycle 2--Pages B118-B119

Individual student ratings for the 5 confidence/ attitude indicators evaluated during the preparation of one item on the menu of small quantity baking.

Cooking Skills Individual Student Scores

• Cooking Skills Cycle 1--Pages B 82-B 83

Cycle 2--Pages B120-B121

Individual student ratings for the 5 criteria used to evaluate student performance in cooking skills.

Garrison Equipment Individual Student Scores

• Garrison Equipment by Criteria... Cycle 1--Pages B 34-B 85 Cycle 2--Pages Bl22-Bl23

Individual student ratings for the 15 criteria used to evaluate student knowledge of each of two items of garrison equipment.

• Garrison Equipment by Item..... Cycle 1--Page B 86 Cycle 2--Page B124

Total raw scores for each individual student on a specific item of garrison equipment, combining the 15 criteria used to evaluate.

• Garrison Equipment by Task..... Cycle 1--Page B 87

Cycle 2--Page B125

Total raw scores for each individual student on groups of criteria by skill demonstrated in using garrison equipment.

Recipe Conversion Scores

• Recipe Conversion Cycle 1--Page B 88
Cycle 2--Page B126

Individual raw scores and percent of possible scores for each student in the recipe conversion problems.

Reaction Surveys

• Reactions to Task Competencies Cycle 1--Page B 90 Cycle 2--Page B128

Combined group scores on each item rated by students indicating their perceptions of competency to perform critical tasks.

• Reactions to the Training Program Cycle 1--Page B 91 Cycle 2--Page B129

Combined group scores on each item rated by students indicating their evaluation of various aspects of their training.

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COMBINED RATINGS

Cycle 1
Groups Starting Training 15 July 1981

Cycle 2
Groups Starting Training 19 August 1981

STUDENT CHARACTERISTICS

STUDENT		CI :le 1		CI le 2		CI bined	Sel:	F-Paced		f-Paced cle 2		f-Pace
CHARACTERISTIC	TOT	*	TOT	•	TOT	8	TOT	•	TOT	•	TOT	•
Group Size	1	.8	1	.6	3	14		L8		14		32
Regular Army	10	55.6	11	68.8	21	61.8	14	77.8	12	85.7	26	81.
Army Reserve	4	22.2	2	12.5	6	17.6	1	5.6	0	0.0	1	3.
Natl. Guard SEX	4	22.2	3	18.8	7	20.6	1	5.6	2	14.3	3	9.
Male	16	88.9	14	87.5	30	88.3	15	83.3	11	78.6	26	86.
Female RACE	2	11.1	2	12.5	4	11.8	1	5.6	3	21.4	4	13.
Caucasian	11	61.1	9	56.3	20	58.8	9	50.0	7	50.0	16	50.
Black	7	38.9	5	31.3	12	35.3	5	27.8	4	28.6	9	28.
Other	0	0.0	2	12.5	2	5.9	2	11.1	3	21.4	5	15.
Average Age	21.1		21.1		21.1		20.0	5	19.	4	20.	ı
Educ. Level	10.6	,	11.3	}	10.6	•	10.	5	10.	1	10.	3
APTITUDE SCORES					•							
OF	91.3	1	93.5	•	92.8	1	98.3	3	91.	3	95.	L
GI	92.7	!	93.1		92.9	ı	94.4	l	90.0	0	92.6	3
Prerequisite Score Not Met	4	22,2	3	18.8	7	20.6	3	16.7	2	14.3	5	15.
co	92.1		93.7	,	92.8	}	93.6	5	92.6	0	92.9	•
FA	90.8	}	94.6	•	92.6	•	9 5.		93.	1	94.	5
EL	90.8	}	79.5	;	85.5	,	95.4	L	87.	7	91.9	•
GM	89.3	}	86.0)	87.8	3	96.	2	86.	9	91.9	•
MM	90.8	}	89.4	.	90.1		95.4	ı	88.	7	92.	3
CL	92.3	1	96.0)	94.0)	94.9	•	92.	9	94.	כ
ST	89.9)	82.0)	86.2		97.	L	91.	1	94.	3
sc	88.4	•	93.8	3	90.9)	93.	5	89.	3	91.	5
PREVIOUS AIT FAILS	1	5.6	0	0.0	1	2.9	4	22.2	0	0.0	4	12.

^(*) Course prerequisites require a standard score of 90 or higher in OF or GT.

SUMMARY OF RESULTS

Evaluation of the Learning Strategies Training Program 94Bl0 - Fort Lee, Virginia

	Completion Tasks	Procedures	Confid/Attitude	Cooking	Completion Tasks	Recipe	Reaction Survey	Reaction Surveu
	Cooking & Baking	Cooking & Baking	Indicators	Skills	Garrison Equipment	Conversion	Task Competency	Training Program
ICI GROUP CYCLE 1								
Totals	933	933	451	165	1142	91	1342	372
Criteria (N)	390	340	155	70	450	16	521	120
Mean	2.4	2.7	2.9	2.4	2.5	5.7	2.6	3.1
Percent of Possible	59.8	68.6	72.7	58.9	63.1	35.7	85.9	77.5
ICI GROUP CYCLE 2								
Totals Criteria (N) Mean Percent of Possible	958	787	406	94	1185	111	1308	451
	396	330	150	50	465	16	513	150
	2.4	2.4	2.7	1.9	2.5	6.9	2.6	3.0
	60.5	59.6	67.7	47.0	63.7	36.5	85.0	75.2
ICI GROUPS COMBINED								
Totals	1891	1720	857	259	2327	202	2650	823
Criteria (N)	786	670	305	120	915	32	1034	270
Mean	2.4	2.6	2.8	2.1	2.5	6.3	2.6	3.0
Percent of Possible	60.1	64.2	70.3	54.0	63.6	33.2	85.4	76.2
and nearly appearance of								
SELF-PACED GROUP CYCLE 1 Totals Criteria (N) Mean Percent of Possible	874	762	371	154	594	68	763	224
	369	302	142	70	345	14	350	80
	2.4	2.5	2.6	2.2	1.6	4.9	2.2	2.8
	59.2	63.1	65.3	55.0	43.1	25.6	72.7	70.0
SELF-PACED GROUP CYCLE 2 Totals Criteria (N) Mean Percent of Possible	799	711	342	124	625	103	1331	322
	357	308	139	60	405	14	545	120
	2.2	2.3	2.5	2.1	1.5	7.4	2.4	2.7
	56.0	57.7	62.9	51.7	38.6	38.7	81.4	67.1
SELF-PACED GROUPS COMBINED Totals Criteria (N) Mean Percent of Possible	1673	1473	713	278	1219	171	2094	546
	726	610	281	130	750	28	895	200
	2.3	2.4	2.5	2.1	1.6	6.1	2.3	2.7
	57.6	60.4	63.4	53.5	40.6	32.1	78.0	68.3

COMBINED RATINGS

Cycle 1 -- Cycle 2

Student Achievement

Mary Wall

Completion Tasks Small Quantity Cooking and Baking

(Based on average rating for each food item)

			ICI	GROUPS				SEL	P-PACE	D GROU	PS	
	TOT	le l	Cyc TOT	le 2	TOT	ined	Cyc TOT	le l	Cyc TOT	le 2	Comb TOT	ined
Items Rated N=	1	29	1	.32	2	61	1	23	1	19	TOT 24	42
DLP	5	3.9	7	5.3	12	4.6	7	5.7	4	3.4	11	4.5
MALP	96	74.4	97	73.5	193	73.9	89	72.4	87	73.1	176	72.7
NOGO	28	21.7	28	21.2	56	21.5	27	22.0	28	23.5	55	22.7

Completion Tasks Small Quantity Cooking and Baking

(Based on total criteria rated for each food item)

			ICI	GROUPS				SEL	F-PACE	D GROU	PS	
- 	Cyc TOT	le 1	Cyc TOT	le 2	TOT	ined	Cyc TOT	le l	TOT	le 2	TOT	ined
Criteria Rated N=	3	90	3	96	7	'86	3	69	3	57	7	26
DLP	38	9.7	51	12.9	89	11.3	40	10.8	23	6.4	63	8.7
MALP	290	74.4	287	72.5	577	73.4	268	72.6	267	74.8	535	73.7
NOGO	62	15.9	58	14.6	120	15.3	61	16.5	67	18.8	128	17.6

DLP = Performed or rated at the desired level of performance.

MALP = Performed or rated at or above the minimum acceptable level of performance.

Procedures Ratings Small Quantity Cooking and Baking

(Based on average rating for each student)

	_		ICI	GROUPS			<u> </u>	SEL	P-PACE	D GROU	P\$	
	Cyc TOT	le l	Cyc TOT	le 2	TOT	ined	Cyc TOT	le l	Cyc TOT	le 2	Comb TOT	ined
Students Rated N=	3	2	3	0	6	2	2	9	2	8	5	7
DLP MALP	0 30	0.0 93.8	0 25	0.0 83.3	0 55	0.0 88.7	0 26	0.0 89.7	0 21	0.0 75.0	0 47	0.0 82.5
MOGO	2	2.2	5	16.7	7	11.3	3	10.3	7	25.0	10	17.5

Procedures Ratings Small Quantity Cooking and Baking

(Based on total criteria rated for each student)

			ICI	GROUPS	5			SEL	F-PACE	D GROU	PS	
	Cyc TOT	le l	Cyc TOT	le 2	Comb TOT	ined	Сус ТОТ	le l	Cyc TOT	le 2	Comb TOT	ined
Criteria Rated N=	339 98 28.9	39	3	30	6	69	3	01	3	808	6	09
DLP	98	28.9	25	7.6	123	18.4	54	17.9	19	6.2	73	12.0
MALP	193	56.9	260	78.8	453	67.7	207	68.8	236	76.6	443	72.7
NOGO	48	14.2	45	13.6	93	13.9	40	13.3	53	17.2	93	15.3

DLP = Performed or rated at the desired level of performance.

MALP = Performed or rated at or above the minimum acceptable level of performance.

Confidence/Attitude Indicator Ratings Small Quantity Cooking and Baking

(Based on average rating for each student)

			ICI	GROUPS				SEL	F-PACE	D GROU	PS	
	Cyc	le l	Cyc	cle 2	Comb	ined	Cyc	le l	Cyc	le 2	Comb	ined
	TOT	-	TOT	•	TOT	•	TOT	•	TOT	•	TOT	•
Students Rated N=	32		3	30	6	2	2	9	2	8	5	7
DLP	3	9.4	0	0.0	3	4.8	0	0.0	0	0.0	0	0.0
MALP	26	81.3	30	100.0	56	90.3	26	89.7	27	96.4	53	93.0
NOGO	3	9.4	0	0.0	3	4.8	3	10.3	1	3.6	4	7.0

Confidence/Attitude Indicator Ratings Small Quantity Cooking and Baking

(Based on total criteria rated for each student)

			ICI	GROUPS				SEL	F-PACE	D GROU	PS	
	-	le 1		le 2		ined		le l	-	le 2		ined
	TOT	-	TOT		TOT	-	TOT	*	TOT	-	<u>_101</u>	
Criteria	155		,	50	3	105	1	42	,	.39	2	81
Rated N=	_		_	.50	-	.03	-	76	•		•	.01
DLP	50	32.3	17	11.3	67	22.0	18	12.7	12	8.6	30	10.7
MALP	90	58.1	122	81.3	212	69.5	109	76.8	116	83.5	225	80.1
NOGO	15	9.6	11	7.3	26	8.5	15	10.5	11	7.9	26	9.2

DLP = Performed or rated at the desired level of performance.

MALP = Performed or rated at or above the minimum acceptable level of performance.

Cooking Skills
(Based on average rating for each student)

			ICI	GROUPS				SEL	F-PACE	D GROU	PS	
	Сус ТОТ	le l	Сус ТОТ	le 2	Comb TOT	ined	Cyc TOT	le l	Cyc TOT	le 2	Comb TOT	ined
Students Rated N=	1	4	1	0	2	24	1	.4	1	2	2	:6
DLP	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
MALP	10	71.4	5	50.0	15	62.5	9	64.3	6	50.0	15	57.7
NOGO	4	28.6	5	50.0	9	37.5	5	35.7	6	50.0	11	42.3

Cooking Skills
(Based on total criteria rated for each student)

			ICI	GROUPS				SEL	F-PACE	D GROU	PS	
	Cyc TOT	le 1	Сус ТОТ	le 2	Comb TOT	ined	Cyc TOT	le l	Cyc TOT	le 2	Comb TOT	ined
Criteria Rated N≈	7	0	5	0	1	.20	7	0	6	0	1	.30
DLP	6	8.6	2	4.0	8	6.7	6		5	8.3	11	8.5
MALP	50	71.4	31	62.0		67.5		68.6		71.7	91	70.0
NOGO	14	20.0	17	34.0	31	25.8	10	22.8	12	20.0	20	21.

DLP = Performed or rated at the desired level of performance.

MALP = Performed or rated at or above the minimum acceptable level of performance.

Garrison Equipment

(Based on average rating for each equipment item)

			ICI	GROUPS				SEL	F-PACE	D GROU	PS	
	TOT	le 1	Cyc TOT	le 2	Comb TOT	ined	Cyc TOT	le l	Cyc TOT	le 2	Comb TOT	ined
Equip Rated N=	3	ю.	3	1	6	51	2	3	2	7	5	0
DLP	0	0.0	1	3.2	1	1.6	0		0	0.0	0	0.0
MALP NOGO	23 7	76.7 23.3		77.4 19.4	47 13	77.0 21.3	8 15	34.8 65.2	8 19	29.6 70.4	16 34	32.0 68.8

Garrison Equipment

(Based on total criteria rated for each equipment item)

			ICI	GROUPS				SEL	F-PACE	D GROU	PS	
	Сус ТОТ	le l	Cyc TOT	le 2	Comb TOT	ined	Cyc TOT	le 1	Cyc TOT	:le 2	Comb TOT	ined
Criteria Rated N=	a 447		4	165	9	12	3	45	4	05	7	50
DLP MALP NOGO	106 268 73	23.7 60.0 16.3	67 349 49	14.4 75.1 10.5	173 517 122	19.0 56.7 13.3	22 188 135	6.4 54.5 39.1	0 214 191			2.9 53.6 43.5

DLP = Performed or rated at the desired level of performance.

MALP = Performed or rated at or above the minimum acceptable level of performance.

Recipe Conversion
(Based on total number of items correct)

			ICI	GROUPS				SEL	P-PACE	D GROU	PS	
NUMBER	Сус	le l	Сус	le 2	Comb	ined	Cyc	le l	Cyc	le 2	Comb	ined
CORRECT	TOT	1	TOT	•	TOT		TOT		TOT		TOT	
0-3	4	25.0	7	43.8	11	34.4	5	35.7	3	21.4	8	28.6
4-7	7	43.8	1	6.3	8	25.0	6	42.9	5	35.7	11	39.3
8-11	5	31.3	3	18.8	8	25.0	2	14.3	2	14.3	4	14.3
12-15	0	0.0	3	18.8	8	9.4	0	0.0	4	28.6	4	14.3
15-19	0	0.0	2	12.5	2	6.3	1	7.1	0	0.0	1	3.6
Students N	16	,	16	•	3	2	14	1	14		2	:8

COMBINED RATINGS

Cycle 1 -- Cycle 2

Frequency of Rating Scores

Completion Tasks
Procedures
Confidence/Attitude Indicators
Cooking Skills
Garrison Equipment
Recipe Conversion

Key to Rating Scale

- 0 Not present (not done)
- 1 Present (done) but not minimally acceptable
- 2 Present (done) but only minimally acceptable (MALP).
- 3 Present (done) above MALP.
- 4.- Present (done) at desired level for given conditions (DLP).

FREQUENCY OF RATING SCORES
Completion Tasks -- Food Items

Completion Tasks -- Food Items Small Quantity Cooking and Baking

					EROU				I G		_				POU	-
	FOOD ITEM	o Că		1 2	N=]	.29 4	C.A.	cle 1	2 2	_	.32 4	Com			N=2	61
1	Salad	0		12	2	0	0		10	1	1	0		22	_ _3	1
2	Soup	0	5	7	3	0	0	2	9	2	0	0		16	5	0
3	Entre	0	4	8	2	0	0	5	8	2	0	0		16	4	0
4	Vegetable	0	3	6	3	0	0	6	5	3	0	0	9	11	6	٥
5	Baking Powder Biscuits	0	7	6	2	0	1	4	4	4	2	1	11	10	6	2
6	Plain Muffins	0	4	6	3	0	0	3	10	2	0	0	7	16	5	0
7	French Toast	0	2	8	1	0	0	1	3	1	0	0	3	11	2	٥
8	Plain Omelet	0	0	2	2	0	0	1	6	3	0	0	1	8	5	٥
9	Chocolate Cake	٥	1	6	6	2	0	1	4	8	2	0	2	10	14	4
LO	Butter Cream Frosting	0	0	4	7	3	ı	0	7	5	2	1	0	11	12	5
	TOTAL	0	28	65	31	ß	7	56	99	31	7	7	54	131	62	12
			_		0	o	ທຸ	۲.	0	'n	m	ω.	~	~	æ	9
	PERCENT OF TOTAL	0.0	21.7	50.4	24.	<u>м</u>	<u>ۂ</u>	15	50.0	23	10	·-	20.	50	23	<u>+</u>
	PERCENT OF TOTAL FOOD ITEM	SRI Cy	F-I	S ACI	25 C2	ROUP 23	SEI. Cy	8-1 cle	2	D G N=1	ROUP	SEL	F-i	PACI and	3D G	BOI 242
	FOOD ITEM	SRI Cy 0	rele) ACI	3 B-3 CD CS	ROUP L23 4	SEI Cy 0	F-1	2 2	D G N=1	ROUP 19 4	SEI Com	1 bir	PACI and 2	2D G N=	BO(242
	FOOD ITEM	SRI Cy 0	F-1 /cle	7	3 3 3	ROUP L23 4	SEI Cy 0	8-1 cle	PACI 2 2 2	D G N=1 3	ROUP 19 4	SEI Com	F-1 bir 1	PACI ned 2	3 4	24: 4
2	FOOD ITEM Salad Soup	SRI Cy 0 0	F-1 7c14 2	7 9	3 3 2	0 0	SEI Cy 0 0	F-1 cle	PACI 2 2 6 5	D G N=1 3	19 4 1 0	SEI COM	F-1 bir 1 7 6	2 13	3 4 4	1 0
2	FOOD ITEM Salad Soup Entre	SEI Cy 0	F-1 cl4 2 2	7 9	3 3 2 5	0 0	SEI Cy 0 0	F-1 cle	6 5	D G N=1 3	19 4 1 0	SEL Com	7 6	13 14 17	ED G N= 3 4 4	1 0 0
2 3 4	FOOD ITEM Salad Soup Entre Vegetable	SEEL Cy O O O	F-I cle 1 4 2 2	7 9 7	3 3 2 5 2	0 0 0	SEL Cy 0 0 0	F-1 cle 1 3 4 2	2 2 6 5 10	D G N=1 3 1 2 2	19 4 1 0 0	SEL Com	7 6 4	2 13 14 17	3 4 4 7 6	1 0 0
2 3 4 5	FOOD ITEM Salad Soup Entre Vegetable Baking Powder Biscuits	SRI Cy 0 0 0 0	F-16 1 4 2 2 4 7	7 9 7 6	3 3 2 5 2	0 0 0 1	SEI. Cy 0 0 0 0	61 2-1 3 4 2 4 7	6 5 10 6 5	D G N=1 3 1 2 2 4	19 4 0 0 0	SEL Com 0 0 0 1	7 6 4 8	13 14 17 13	2D G N= 3 4 4 7 6	1 0 0 1
2 3 4 5 6	FOOD ITEM Salad Soup Entre Vegetable Baking Powder Biscuits Plain Muffins	SRI Cy 0 0 0	F-E /cle 1 2 2 4 7 4	7 9 7 6 6	3 3 2 5 2 0	0 0 0 1 0	SEI Cy 0 0 0 0 0 1 0 0	8-1 2 1 3 4 2 4 7 5	2 2 6 5 10 6 5	D G N=1 3 1 2 2 4 1 3	19 4 1 0 0 0	SEL Com 0 0 0 0 1 0	7 6 4 8 14 9	13 14 17 13 11 12	2D G N=3 4 4 7 6	1 0 0 1 0
2 3 4 5 6 7	FOOD ITEM Salad Soup Entre Vegetable Baking Powder Biscuits Plain Muffins French Toast	SRI Cy 0 0 0 0	F-16 1 4 2 2 4 7	7 9 7 6	3 3 2 5 2	0 0 0 1	SEI. Cy 0 0 0 0	61 2-1 3 4 2 4 7	6 5 10 6 5	D G N=1 3 1 2 2 4	19 4 0 0 0	SEL Com 0 0 0 1	F-1 bir 7 6 4 8 14 9	13 14 17 13	2D G N= 3 4 4 7 6	1 0 0 1
2 3 4 5 6 7 8	FOOD ITEM Salad Soup Entre Vegetable Baking Powder Biscuits Plain Muffins French Toast Plain Omelet	SEI Cy 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 2 4 7 4 1	7 9 7 7 6 6 3 7	3 3 3 2 5 2 0 3	0 0 0 1 0 0	SEL Cy 0 0 0 0 0 1 0 0 0 0	51 1 3 4 2 4 7 5	2 2 6 5 10 6 5 6 6 4	ED G N=1 3 1 2 2 4 1 3 2	1 0 0 0 0 0 1	SEL Com 0 0 0 0 1 0 0 0	7 6 4 8 14 9 3	2 13 14 17 13 11 12 9	2D G N=3 4 4 7 6 1 6	1 0 0 1 0 1
2 3 4 5 6 7 8	FOOD ITEM Salad Soup Entre Vegetable Baking Powder Biscuits Plain Muffins French Toast	SRI Cy 0 0 0 0 0 0	7 4 1 1 1	7 9 7 6 6 3 7 2	3 3 3 2 5 2 0 3	0 0 0 1 0 0 0 5	SEL Cy 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F-1 3 4 2 4 7 5 2 0 0	2 2 6 5 10 6 5 6 6 4 7	ED G B=1 3 1 2 2 4 1 3 2 0 5	1000P 194 1000 0000 0000 1000	SEL Com 0 0 0 0 1 0 0 1	7 6 4 8 14 9 3 1 1	13 14 17 13 11 12 9	ED G N=3 4 4 7 6 1 6 2	1 0 0 1 0 0 1 0 6
2 3 4 5 6 7 8 9	FOOD ITEM Salad Soup Entre Vegetable Baking Powder Biscuits Plain Muffins French Toast Plain Omelet Chocolate Cake	SRI Cy 0 0 0 0 0 0	7 4 1 1 1	7 9 7 7 6 6 3 7 2 9	3 3 2 5 2 0 3 0 2 5 11	0 0 0 1 0 0 0 5	SEL Cy 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F-1 3 4 2 4 7 5 2 0 0	2 2 6 5 10 6 5 6 6 4 7	ED G B=1 3 1 2 2 4 1 3 2 0 5	0 0 0 0 1 0 1	SEL Com 0 0 0 0 1 0 0 1	7 6 4 8 14 9 3 1 1	13 14 17 13 11 12 9 11 9	ED G N=3 4 4 7 6 1 6 2 2	1 0 0 1 0 0 1 0 6

FREQUENCY OF RATING SCORES

Completion Tasks -- Food Items Small Quantity Cooking and Baking

			I GR				IC	I GR	OUP			I	CI G	ROUP	
CRITERION		ycle			90		Acre	2 N	i = 3	196	Co	mb i	ned	N =	786
	0	_1		3	4_	0	_1	2	3		0	1	2	3	
CRITERION 1Taste/Flavor	0	14	42	50	14	2	11	50	51	18	2	25	92	111	32
CRITERION 2Appearance	0	21	60	34	15	2	30	59	37	14	2	41	119	71	29
CRITERION 3Texture	0	27	47	47	9	2	21	53	37	19	2	48	100	84	28
TOTAL	0	62	149	141	38	•	25	162	125	21	9	114	311	366	68
PERCENT OF TOTAL	0.0	16.0	38.2	36.2	9.7	1.5	13.1	40.9	31.6	12.9	0.8	14.5	39.6	33.8	
	_	elf-						PACE						ED GI	
CRITERION	a	ycle 1	1 N 2	3	69 4	0	ycle 1	2	N = 3	357 4	Co 0	odbi: 1	ned 2	N =	726
CRITERION 1Taste/Flavor	1	13	47	50	12	1	19	48	46	5	2	32	95	96	1
CRITERION 2Appearance	1	23	52	33	14	1	21	61	27	9	2	44	113	60	2
CRITERION 3Texture	1	22	47	39	14	1	24	50	35	9	2	46	97	74	2
TOTAL	m	28	146	122	\$	m	64	159	108	23	•	122	305	230	۲3
	æ	7	9.	۲.	œ	æ	0	S	۳.	4	00	8	0	7	7

Procedures Small Quantity Cooking and Baking

		IC	I (GRO (ΤP		I	CI	GRO	JP		I	CI (RO	JP
CRITERION	Cy	rcle	1	N-3	339	C	ycl	e 2	N=	330	Co	bi	ned	N-	-669
	0	1	2	3	4	0				4	0	1	2	3	4
CRITERION 1-Washed hands.	1	1	0	6	18	1	0	8	12	9	2	1	0	18	27
CRITERION 2Read recipe.	0	4	7	5	16	0	3	10	13	4	0	7	17	18	20
CRITERION 3Checked equipment	2	1	3	13	12	0	1	13	15	1	2	2	16	28	13
CRITERION 4Assembled utensils	0	1	4	18	9	0	2	13	12	3	0	3	17	30	12
CRITERION 5-~Assembled ingred.	0	1	8	9	14	0	2	13	12	3	0	3	21	21	17
CRITERION 6Followed recipe	1	3	11	9	6	0	4	18	8	0	1	7	29	17	6
CRITERION 7Sanitation & Safety	1	4	12	11	4	0	9	12	8	1	1	13	24	19	5
CRITERION 8No waste	0	6	7	11	8	2	. 2	8	15	3	2	8	15	26	11
CRITERION 9Cooking skills	1	5	13	8	4	1	. 8	12	9	0	2	13	25	17	4
CRITERION 10Clean as you go	1	8	7	13	1	0	4	16	10	0	1	12	23	23	1
CRITERION 11Cleaned after task	0	7	7	11	6	1	. 5	10	13	1	1	12	17	24	7
TOTAL	7	41	79	114	86	Ŋ	6	133	127	25	12	81	212	241	123
PERCENT OF TOTAL	2.1	12.1	23.3	33.6	28.9	1.5	12.1	40.3	38.5	7.6	1.5	12.1	31.7	36.0	18.4
CRITERION	_			N=:	-				ACE N=				F-Pi ned		-609
•	0	1	2	3	4	0	1	. 2	3	4	0	1	2	3	4
											<u>`</u>	_=			
CRITERION 1Washed Hands.	0	2	1		15	0	1	6		7	0	_		16	22
CRITERION 1Washed Hands. CRITERION 2Read recipe	0	_	1 10	2	15 6	0	_	•				3			22 7
	_	2	10	2		•	4	11	14	7	0	3 6	7	23	
CRITERION 2Read recipe	0	2	10	2 11 13	6	Ŏ	4	11	14 12	7	0	3 6 3	7 21	23 24	7
CRITERION 2-Read recipe CRITERION 3Checked equipment	0	2	10 11	2 11 13	6 5	0	. 3	11	14 12 11 12	7 1 2	0 0 1	3 6 3 3	7 21 22 22 22	23 24 24 21	7 7 7
CRITERION 2Read recipe CRITERION 3Checked equipment CRITERION 4Assembled utensils	0 0	2 0 1 2	10 11 11	2 11 13 12	6 5 4	0	3 2	11 11 11	14 12 11 12 12	7 1 2 3	0 0 1 0	3 6 3 3	7 21 22 22	23 24 24 21	7 7 7
CRITERION 2-Read recipe CRITERION 3Checked equipment CRITERION 4Assembled utensils CRITERION 5Assembled ingred.	0 0 0 0 1	2 0 1 2 7	10 11 11 8	2 11 13 12 9	6 5 4 9	0	3 2 10 10	11 11 11 13	14 12 11 12 12 12	7 1 2 3	0 0 1 0	3 6 3 3 3	7 21 22 22 22	23 24 24 21 13	7 7 7 11
CRITERION 2Read recipe CRITERION 3Checked equipment CRITERION 4Assembled utensils CRITERION 5Assembled ingred. CRITERION 6Followed recipe	0 0 0 0 1	2 0 1 2 7 4	10 11 11 8 10	2 11 13 12 9 5	6 5 4 9 5	0	4 3 2 3 1 1 1 1 2 3 1 2 3 1 3 3 3 3 3 3 3	11 11 13 13 10 14	14 12 11 12 12 12 8 5	7 1 2 3 2 0	0 0 1 0 0	3 6 3 3 17 12 4	7 21 22 22 21 20 31 22	23 24 24 21 13 13 22	7 7 7 11 5
CRITERION 2Read recipe CRITERION 3Checked equipment CRITERION 4Assembled utensils CRITERION 5Assembled ingred. CRITERION 6Followed recipe CRITERION 7Sanitation & safety	0 0 0 0 1 0	2 0 1 2 7 4 2	10 11 11 8 10 17	2 11 13 12 9 5	6 5 4 9 5 0	0 1 0 0 0	4 3 2 3 1 1 1 1 1 2 3 3 3 3 3 3 3 3 3 3 3	11 11 13 10 14 12	14 12 11 12 12 8 5 12	7 1 2 3 2 0	0 0 1 0 0	3 6 3 3 17 12 4	7 21 22 22 21 20 31	23 24 24 21 13 13 22	7 7 7 7 11 5
CRITERION 2Read recipe CRITERION 3Checked equipment CRITERION 4Assembled utensils CRITERION 5Assembled ingred. CRITERION 6Followed recipe CRITERION 7Sanitation & safety CRITERION 8No waste	0 0 0 0 1 0 0	2 0 1 2 7 4 2 4	10 11 11 8 10 17 10 15	2 11 13 12 9 5 8 10	6 5 4 9 5 0 5	0 1 0 0 0	4 3 3 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 13 10 10 14 12 10 15	14 12 11 12 12 12 13 15 10	7 1 2 3 2 0 0	0 0 1 0 0 1	3 6 3 3 17 12 4 12	7 21 22 22 21 20 31 22	23 24 24 21 13 13 22 16	7 7 7 11 5 0 7
CRITERION 2Read recipe CRITERION 3Checked equipment CRITERION 4Assembled utensils CRITERION 5Assembled ingred. CRITERION 6Followed recipe CRITERION 7Sanitation & safety CRITERION 8No waste CRITERION 9Cooking skills	0 0 0 0 1 0 0 1	2 0 1 2 7 4 2 4	10 11 11 8 10 17 10 15 14	2 11 13 12 9 5 8 10 6	6 5 4 9 5 0 5	001000000000000000000000000000000000000	4 3 3 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 13 10 14 12	14 12 11 12 12 12 13 15 10	7 1 2 3 2 0 0 2	0 0 0 1 0 0 1 1 0 0 0 0	3 6 3 3 17 12 4 12	7 21 22 22 21 20 31 22 25	23 24 24 21 13 13 22 16 12	7 7 7 11 5 0 7 2
CRITERION 2Read recipe CRITERION 3Checked equipment CRITERION 4Assembled utensils CRITERION 5Assembled ingred. CRITERION 6Followed recipe CRITERION 7Sanitation & safety CRITERION 8No waste CRITERION 9Cooking skills CRITERION 10Clean as you go	0 0 0 0 1 0 0 1	2 0 1 2 7 4 2 4 7	10 11 11 8 10 17 10 15 14	2 11 13 12 9 5 8 10 6 7	6 5 4 9 5 0 5 2	0 1 0 0 0 1	4 3 3 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 13 10 10 14 12 10 15	14 12 11 12 12 12 13 15 10	7 1 2 3 2 0 0 2 0	0 0 0 1 0 0 1 1 0 0 0 0	3 6 3 3 17 12 4 12	7 21 22 22 21 20 31 22 25 29	23 24 24 21 13 13 22 16 12	7 7 7 11 5 0 7 2

Confidence/Attitude Indicators Small Quantity Cooking and Baking

		I	II (GRO	JP		1	CI	GRO	JP		I	CI	GRO	JР
CRITERION	Cy	cle	1	N -3	L55	С	ycl	e 2	N=	L50	Co	nb i	ned	N	- 305
	0	1	2	_3	4	0	1	2	3	4	0	1	2	3	4
CRITERION 1Proceeded with- out false starts	1	2	6	11	12	0	2	8	16	4	1	4	14	27	16
CRITERION 2Attended to own actions.	0	4	6	11	9	0	2	6	19	3	0	6	12	30	12
CRITERION 3Stayed focused on task.	1	2	4	14	10	0	2	7	15	6	1	4	11	29	16
CRITERION 4Remained cool under fire.	2	1	2	14	10	0	0	11	17	2	2	1	13	31	12
CRITERION 5Showed concern for quality.	1	1	12	8	9	0	5	7	16	2	1	6	19	24	11
TOTAL	ĸ	2	8	9	8	0	11	39	83	11	ĸ	21	69	143	67
PERCENT OF TOTAL	3.2	6.5	19.4	38.7	32.3	1.0	7.3	26.0	53.3	11.3	1.6	6.9	22.6	46.9	22.0
CRITERION	Cž	cle	1	N=	L42		ycl	e 2	ACEI N=	L 39			F-Pi ned		281
	0	<u> 1</u>	_2	3	_4	0	<u> 1</u>	2	3	_4	0	<u> </u>	2	3	4
CRITERION 1Proceeded with- out false starts.	0	2	9	15	3	0	2	10	14	2	0	4	19	29	5
CRITERION 2Attended to own actions.	0	4	8	16	1	0	1	9	14	4	0	5	17	30	5
CRITERION 3Stayed focused	0	4	8	12	5	0	1	. 6	19	2	0	5	14	31	7
on task.						_	_		16		0	_			5
•	0	1	8	15	4	0	O	12	13	1	U	1	30	30	•
on task. CRITERION 4Remained cool	o ò	_		15 8	5	0				3		_	18		8
on task. CRITERION 4Remained cool under fire. CRITERION 5Showed concern		_			4 5 8t	•	7	8		_		_	18		

PREQUENCY OF RATING SCORES Cooking Skills

		I	I G	ROU	P		IC	I G	ROU	Þ		I	CIG	RO	ΙP
CRITERION	C	cle	1	N-	70	Cy	cle	2	N=	50	Com	بلط	ped	M	-120
	0	1	2	3	4	0	1	2	3	4_	0	1	2	3	4
CRITERION 1Finely shredded			_								_			_	_
fresh cabbage.	0	3	7	3	1	0	3	5	2	0	, O	6	12	5	1
CRITERION 2-Diced fresh													_		
sweet pepper (1/2 inch).	0	3	4	7	0	0	5	3	2	0	0	8	7	9	0
CRITERION 3Sliced fresh															
pared cucumber (1/8 inch).	1	2	3	7	1	0	0	7	2	1	0	1	10	9	4
CRITERION 4Cutting tomato															
wedges (8).	0	1	3	7	3	0	0	7	2	1	0	1	10	9	4
CRITERION 5Making a															
brown roux.	0	4	5	4	1	2	3	4	0	1	2	7	9	4	2
brown zoek.															
TOTAL	-	13	22	28	9	~	21	22	0	7	m	28	4	37	œ
20274			14	14			_	"				••	•		
PERCENT OF TOTAL	4	9	•	0	9	0	0	0	0	0	ທຸ	m	7	8	7
PERCENT OF TOTAL	ä	18.6	31.	60.0	8.6	4.0	ä	4.0	8	4	7	23.	36.	8	ø.
	-		?-P.			_		-P)	CEL)	-		F-Pl		_
CRITERION	C	/cl			70	СУ	cle			60	Com	рī	ned		-130
	٥	1	_2	_3	4	0	1	_2	_3	4	o	<u> 1</u>	2	3	_4
								_							
COMPRISON learningly shreaded													_	_	
CRITERION 1Finely shredded	1	1	5	6	1	0	0	10	1	1	1	1	15	7	2
fresh cabbage.		1	5	6	1	_	0		_	1	1			7	
fresh cabbage. CRITERION 2Diced fresh		1	5	6	1	0	0	10 8	1	1	1 0	1		7 4	2
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch).	1		_		_	0		8	_	_		5	16	4	
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh	1		_		_	_			_	_			16		
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch).	1		8	3	0	0	2	8	_	1	0	5	16	4	1
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch). CRITERION 4Cutting tomato	1		8	3	0	0	2	8	_	1	0	5	16 7	4	1
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch). CRITERION 4Cutting tomato wedges (8).	1 0 0	3	8	3	0	0	2	8	1	1	0	5	16 7	10	3
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch). CRITERION 4Cutting tomato wedges (8). CRITERION 5Making a	1 0 0	3	8	3	0	0	2	8	1	1	0	5	16 7	10	3
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch). CRITERION 4Cutting tomato wedges (8).	1 0 0	3 4 3	8 2 8	3 6 1	0 2 2	0 1 0	2 1 5	8 5 4	1 4 2	1 1 1	0	5	16 7 12	10	3
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch). CRITERION 4Cutting tomato wedges (8). CRITERION 5Making a brown roux.	1 0 0	3 3 3	8 2 8 5	3 6 1 4	0 2 2	0 1 0	2 1 5	8 5 4 7	1 4 2	1 1 1	0	5 5 8 4	16 7 12 12	4 10 3 5	1 3 3 2
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch). CRITERION 4Cutting tomato wedges (8). CRITERION 5Making a	1 0 0	3 4 3	8 2 8	3 6 1	0 2 2 1	0 1 0	2 1 5	8 5 4	1 4 2 1	1 1 1	0 1 0 3	5	16 7 12 12	4 10 3 5	3
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch). CRITERION 4Cutting tomato wedges (8). CRITERION 5Making a brown roux. TOTAL	1 0 0 0 1	3 4 3	8 2 8 5	3 6 1 4 07 9	0 2 2 1	0 1 0	2 1 5 1 0 0	8 5 4 7	1 4 2 1	1 1 1	0 1 0 3	5 5 8 4	16 7 12 12	4 10 3 5	1 3 3
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch). CRITERION 4Cutting tomato wedges (8). CRITERION 5Making a brown roux.	1 0 0 0 1	3 4 3	8 2 8 5	3 6 1 4 07 9	0 2 2 1 9	0 1 0 2	2 1 5 1 0 0	8 5 4 7	1 4 2 1 6 0.	1 1 1 5 6.	0 1 0 3	5 5 8 4 2 2	16 7 12 12	4 10 3 5 67 8.	3 3 2 11 5.
fresh cabbage. CRITERION 2Diced fresh sweet pepper (1/2 inch). CRITERION 3Sliced fresh pared cucumber (1/8 inch). CRITERION 4Cutting tomato wedges (8). CRITERION 5Making a brown roux. TOTAL	1 0 0 0 1	3 3 3	8 2 8 5	3 6 1 4 07	0 2 2 1	0 1 0 2	2 1 5 1	8 5 4 7	1 4 2 1	1 1 1	0 1 0 3	5 5 8 4	16 7 12 12	4 10 3 5 67 8.	3 3 2 11 5.

Garrison Equipment (Based on individual ratings for each criterion.)

				ROU						GRO			I	CI	GRO	UP
CRITERION	Cy	/cl	e 1	N=4	147		Су	'cle	2	N=	165	Co	m bi	ned	N:	- 912
	0	<u> 1</u>	2	_3	4		0	1	2	3	_4	0	_ 1	. 2	3	4
1. Checked equipment	1	3	7	11	8		0	1	12	12	3	1	4	19	26	11
2. Explained checking purpose	1	1	10	10	8		0	1	10	16	4	1		20		
3. Observed safety precautions	1	3	7	10	9		0	4	10	11	6	1		17		
4. Explained safety precautions	1	0	8	13	8		0	1	12	12	6	1	1	20	25	14
5. Started equipment properly	3	4	6	9	8		0	2	15	9	5	3	6	21	18	13
6. Operated equipment properly	3	3	7	9	8		0	3	16	7	5	3	6	23	16	13
7. Explained starting procedures	3	2	11	5	8		٥	3	11	13	4	3	5	22	18	12
8. Stopped equipment properly	1	4	9	7	9		0	1	14	11	5	1	5	23	18	14
9. Explained stopping procedures	1	2	11	10	6		0	1	16	10	4	1	3	27	20	10
O. Disassembled properly	4	2	9	9	6		1	4	9	13	4	5	6	18	22	10
1. Explained disassembling	1	1	13	8	7		1	4	8	13	5	2	5	_	21	
2. Cleaned equipment properly	4	8	7	4	7		0	6	12		3	4	14			10
3. Explained cleaning procedure	2	8	7	10	3		0	7	9	12	3	2		16		-6
4. Reassembled equip. properly	ī	2	14	7	6		Ō	-	11		5	ī		25		-
15. Explained reassembling	ī		_	5	5		Ō	_	12		5	ī	6	-	15	_
							_					<u> </u>				
mam	m	ıo		_	10		~	_	_	^1	_	_		_	_	
TOTAL	58	45	141	127	106	`	•	4	177	172	6 7	8	92	318	299	173
	m	-	8	6]	9]		e#				4	-				
PERCENT OF TOTAL	9	•	•	•	•		4.	10.1	7.	0.	•		7	0.	8	0
	•	20	31	28	23	•	_	Ä	38	3	14	m	2	34	32	19
		EL	P-PI	Œ)		S	ELF	7-P	ACEI	<u>, </u>		SEL	F-P	ACE)
					-		_							:		
CRITERION				N=3	-					N=4				ned		-7 50
CRITERION					-								mbi	ned		=750 4
	Cy	rclo 1	e 1	N=3	345		Су	cle 1	2	N=4	105	Co 0	mbi 1	ned	N	
1. Checked equipment	0 0	rclo 1	e 1 2	N=3	345 4		Су 0	cle 1 9	2 2	N=4 3	105 4	0 2	mbi 1	ned 2	N: 3	4
1. Checked equipment 2. Explained checking purpose	Cy 0	1 8	1 2 10	N=3 3	345 4 1		Су 0	9 8	2 2 13	N=4 3	0	0 2	17 12	2 23 24	N: 3	1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions	Cy 0 1 2	1 8 4	1 2 10 11	N=3 3 6	1 0		Cy 0 1	9 8 8	2 2 13 13	N=4 4 5	0 0 0	0 2 3	17 12	23 24 21	N: 3 7 11	1 0
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions	Cy 0 1 2 5	8 4 4	10 11 10	N=3 3 6 3	1 0 1		Cy 0 1 1 2 2	9 8 8 7	13 13 11	N=4 3 4 5 6	0 0 0 0	2 3 7	17 12 12 12	23 24 21 24	N: 3 7 11 9	1 0 1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly	Cy 0 1 2 5 3 4	8 4 4 2	10 10 11 10 13 5	N=3 3 6 3 4 2	1 0 1 1 4		Cy 0 1 1 2 2	9 8 8 7	2 2 13 13 11 11 12	N=4 5 6 7	0 0 0 0 0	2 3 7 5	17 12 12 9 18	23 24 21 24 17	N: 3 7 11 9 11 3	1 0 1 1 4
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly	Cy 0 1 2 5 3 4 5	8 4 4 2 8	10 10 11 10 13	N=3 3 6 3 4	1 0 1 4 3		Cy 0 1 1 2 4 5	9 8 8 7 10	13 13 11 11	N=4 5 6 7 1	0 0 0 0	2 3 7 5 8	17 12 12 9 18	23 24 21 24 21 24 17	N: 3 7 11 9 11 3	1 0 1 1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures	C) 0 1 2 5 3 4 5 5	8 4 4 2 8 7	10 11 10 13 5 5	N=3 3 6 3 4 2 3 4	1 0 1 4 3 1		Cy 0 1 1 2 2 4 5 3	9 8 8 7 10 9	13 13 11 11 12 12	N=4 5 6 7 1 2	0 0 0 0 0 0	2 3 7 5 8	17 12 12 12 9 18 16 21	23 24 21 24 17 17	N: 3 7 11 9 11 3 4 6	1 0 1 4 3 1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly	C) 0 1 2 5 3 4 5 5 3	8 4 4 2 8 7 8	10 11 10 13 5 5	N=3 3 6 3 4 2 3 4 5	1 0 1 4 3 1 2		Cy 0 1 1 2 2 4 5 3	9 8 7 10 9 13	13 13 11 11 12 12 9	N=4 5 6 7 1 1 2	0 0 0 0 0 0 0	2 3 7 5 8 10 8	17 12 12 9 18 16 21	23 24 21 24 17 17 14	N: 3 7 11 9 11 3 4 6 7	1 0 1 1 4 3 1 2
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure	Cy 0 1 2 5 3 4 5 5 3 3	8 4 4 2 8 7 8 4	10 11 10 13 5 5 8 11	N=3 3 6 3 4 2 3 4 5	1 0 1 1 4 3 1 2		Cy 0 1 1 2 2 4 5 3 4 3	9 8 8 7 10 9 13 13	13 13 11 11 12 12 9 8 12	N=4 5 6 7 1 1 2 2	0 0 0 0 0 0 0 0	2 3 7 5 8 10 8 7	17 12 12 19 18 16 21 18	23 24 21 24 17 17 14 16 23	Nº 3 7 11 9 11 3 4 6 7	1 0 1 1 4 3 1 2 3
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly	Cy 0 1 2 5 3 4 5 5 3 3 5	8 4 4 2 8 7 8 4 4 5	10 11 10 13 5 5 8 11 8	N=3 3 6 3 4 2 3 4 5 2 4	1 0 1 4 3 1 2 3		Cy 0 1 1 2 2 4 5 3 4 3 1	9 8 8 7 10 9 13 13 10	13 13 13 11 11 12 12 9 8 12 8	N=4 5 6 7 1 1 2 2	0 0 0 0 0 0 0 0	2 3 7 5 8 10 8 7 6	17 12 12 12 9 18 16 21 18 14	23 24 21 24 17 17 14 16 23 16	N° 3 7 11 9 11 3 4 6 7 4 8	1 0 1 4 3 1 2 3
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly 11. Explained disassembling	Cy 0 1 2 5 3 4 5 5 3 3 5 4	1 8 4 4 2 8 7 8 4 4 5 5	10 11 10 13 5 5 8 11 8	N=3 3 6 3 4 2 3 4 5 2 4	1 0 1 4 3 1 2 3 1		Cy 0 1 1 2 2 4 5 3 4 3 1	9 8 7 10 9 13 13 10 14 8	2 2 2 13 13 11 11 12 12 9 8 12 8 10	N=4 5 6 7 1 1 2 2 2 4 5	0 0 0 0 0 0 0 0 0 0	2 3 7 5 8 10 8 7 6	17 12 12 9 18 16 21 18 14 19	23 24 21 24 17 17 14 16 23 16	N ¹ 3 7 11 9 11 3 4 6 7 4 8 9	1 0 1 4 3 1 2 3 1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly 11. Explained disassembling 12. Cleaned equipment properly	Cy 0 1 2 5 3 4 5 5 3 3 5 4 3	8 4 4 2 8 7 8 4 4 5 5	10 11 10 13 5 5 8 11 8 9	N=3 3 6 3 4 2 3 4 5 2 4 4 2	1 0 1 1 4 3 1 2 3 1 1		Cy 0 1 1 2 2 4 5 3 4 3 1 4 5	9 8 7 10 9 13 13 10 14 8	13 13 11 11 12 12 9 8 12 8 10	N=4 5 6 7 1 1 2 2 2 4 5	0 0 0 0 0 0 0 0 0 0 0	2 3 7 5 8 10 8 7 6 6	17 12 12 9 18 16 21 18 14 19	23 24 21 24 17 17 14 16 23 16 19 20	N ⁴ 3 7 11 9 11 3 4 6 7 4 8 9 6	1 0 1 1 4 3 1 2 3 1 1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly 11. Explained disassembling 12. Cleaned equipment properly 13. Explained cleaning proced.	Cy 0 1 2 5 3 4 5 5 3 3 5 4 3 3	8 4 4 2 8 7 8 4 4 5 5 7 6	10 11 10 13 5 5 8 11 8 9	N=3 3 6 3 4 2 3 4 5 2 4 4 2 3	1 0 1 1 4 3 1 2 3 1 1		Cy 0 1 1 2 2 4 5 3 4 3 1 4 5 5	9 8 7 10 9 13 13 10 14 8 9	13 13 11 11 12 12 9 8 12 8 10 10	N=4 3 4 5 6 7 1 1 2 2 2 4 5 4 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 7 5 8 10 8 7 6 6 8 8	17 12 12 9 18 16 21 18 14 19 13 15	ned 2 23 24 21 24 17 17 14 16 23 16 19 20	N ⁴ 3 7 11 9 11 3 4 6 7 4 8 9 6 6	1 0 1 4 3 1 2 3 1 1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly 11. Explained disassembling 12. Cleaned equipment properly 13. Explained cleaning proced. 14. Reassembled equip. properly	CY 0 1 2 5 3 4 5 5 3 3 5 4 3 3 4	8 4 4 2 8 7 8 4 4 5 5 7 6 3	10 11 10 13 5 5 8 11 8 9 10 9	N=3 3 3 6 3 4 2 3 4 5 2 4 4 2 3 1	1 0 1 1 4 3 1 2 3 1 1 1 1		Cy 0 1 1 2 2 4 5 3 4 3 1 4 5 5 3	9 8 7 10 9 13 13 10 14 8 9	13 13 11 11 12 12 9 8 12 8 10 10 10	N=4 3 4 5 6 7 1 1 2 2 2 4 3 3	000000000000000000000000000000000000000	2 3 7 5 8 10 8 7 6 6 8 8 8	17 12 12 9 18 16 21 18 14 19 13 15 15	ned 2 23 24 21 24 17 17 14 16 23 16 19 20 19 24	N ⁴ 3 7 11 9 11 3 4 6 7 4 8 9 6 6 6 4	1 0 1 1 4 3 1 2 3 1 1 1 1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly 11. Explained disassembling 12. Cleaned equipment properly 13. Explained cleaning proced. 14. Reassembled equip. properly	Cy 0 1 2 5 3 4 5 5 3 3 5 4 3 3	8 4 4 2 8 7 8 4 4 5 5 7 6	10 11 10 13 5 5 8 11 8 9	N=3 3 6 3 4 2 3 4 5 2 4 4 2 3	1 0 1 1 4 3 1 2 3 1 1		Cy 0 1 1 2 2 4 5 3 4 3 1 4 5 5	9 8 7 10 9 13 13 10 14 8 9	13 13 11 11 12 12 9 8 12 8 10 10	N=4 3 4 5 6 7 1 1 2 2 2 4 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 7 5 8 10 8 7 6 6 8 8 8	17 12 12 9 18 16 21 18 14 19 13 15 15	ned 2 23 24 21 24 17 17 14 16 23 16 19 20	N ⁴ 3 7 11 9 11 3 4 6 7 4 8 9 6 6 6 4	1 0 1 1 4 3 1 2 3 1 1 1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly 11. Explained disassembling 12. Cleaned equipment properly 13. Explained cleaning proced. 14. Reassembled equip. properly 15. Explained reassembling	Cy 0 1 2 5 3 4 5 5 3 3 5 4 3 3 4 4	8 4 4 2 8 7 8 4 4 5 5 7 6 3 4	10 11 10 13 5 5 8 11 8 9 10 9 13 4	N=3 3 3 6 3 4 2 3 4 5 2 4 4 2 3 1 4	1 0 1 1 4 3 1 2 3 1 1 1 1 2 0		Cy 0 1 1 2 2 4 5 3 4 3 1 4 5 5 3	9 8 7 10 9 13 13 10 14 8 9 10 9	2 2 13 13 11 11 12 12 9 8 12 8 10 10 10 11 12	N=4 3 4 5 6 7 1 1 2 2 2 4 5 4 3 3 3 3	005	Con 0 2 3 7 7 5 8 10 8 7 6 6 8 8 8 7 7 7	mbi 17 12 12 9 18 16 21 18 14 19 13 15 15 13	ned 2 23 24 21 24 17 17 14 16 23 16 19 20 19 24	Nº 3 7 11 9 11 3 4 6 7 4 8 9 6 6 6 4 7	1 0 1 1 4 3 1 2 3 1 1 1 1 2 0
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly 11. Explained disassembling 12. Cleaned equipment properly 13. Explained cleaning proced. 14. Reassembled equip. properly	CY 0 1 2 5 3 4 5 5 3 3 5 4 3 3 4	8 4 4 2 8 7 8 4 4 5 5 7 6 3	10 11 10 13 5 5 8 11 8 9 10 9 13 4	N=3 3 3 6 3 4 2 3 4 5 2 4 4 2 3 1	1 0 1 1 4 3 1 2 3 1 1 1 1		Cy 0 1 1 2 2 4 5 3 4 3 1 4 5 5 3	9 8 7 10 9 13 13 10 14 8 9 10 9	2 2 13 13 11 11 12 12 9 8 12 8 10 10 10 11 12	N=4 3 4 5 6 7 1 1 2 2 2 4 3 3	000000000000000000000000000000000000000	Con 0 2 3 7 7 5 8 10 8 7 6 6 8 8 8 7 7 7	mbi 17 12 12 9 18 16 21 18 14 19 13 15 15 13	ned 2 23 24 21 24 17 17 14 16 23 16 19 20 19 24	Nº 3 7 11 9 11 3 4 6 7 4 8 9 6 6 6 4 7	1 0 1 1 4 3 1 2 3 1 1 1
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly 11. Explained disassembling 12. Cleaned equipment properly 13. Explained cleaning proced. 14. Reassembled equip. properly 15. Explained reassembling TOTAL	Cy 0 1 2 5 3 4 5 5 3 3 5 4 3 3 4 4 95	1 8 4 4 2 8 7 8 4 4 5 5 5 7 6 3 4 98	10 11 10 13 5 5 8 11 8 9 10 9 13 4	N=3 3 3 6 3 4 2 3 4 5 2 4 4 2 3 1 4	1 0 1 1 4 3 1 2 3 1 1 1 1 2 0		Cy 0 1 1 2 2 4 5 3 4 3 1 4 5 5 3 3 9	1 9 8 8 7 10 9 13 13 10 14 8 8 9 10 9 57 1	13 13 11 11 12 12 9 8 10 10 10 11 12	N=4 5 6 7 1 1 2 2 2 4 5 4 3 3 3	0054	Con 0 2 3 7 7 5 8 10 8 7 6 6 8 8 8 7 7 7 101	mbi 1 17 12 12 9 18 16 21 18 14 19 13 15 13	23 24 21 24 17 17 14 16 23 16 19 20 19 24 16	N° 3 7 11 9 11 3 4 6 6 7 4 8 9 6 6 4 7 7 201	1 0 1 1 4 3 1 2 3 1 1 1 1 1 2 0
1. Checked equipment 2. Explained checking purpose 3. Observed safety precautions 4. Explained safety precautions 5. Started equipment properly 6. Operated equipment properly 7. Explained starting procedures 8. Stopped equipment properly 9. Explained stopping procedure 10. Disassembled properly 11. Explained disassembling 12. Cleaned equipment properly 13. Explained cleaning proced. 14. Reassembled equip. properly 15. Explained reassembling	Cy 0 1 2 5 3 4 5 5 3 3 5 4 3 3 4 4	8 4 4 2 8 7 8 4 4 5 5 7 6 3 4	10 11 10 13 5 5 8 11 8 9 10 9 13 4	N=3 3 3 6 3 4 2 3 4 5 2 4 4 2 3 1 4	1 0 1 1 4 3 1 2 3 1 1 1 1 2 0		Cy 0 1 1 2 2 4 5 3 4 3 1 4 5 5 3	9 8 7 10 9 13 13 10 14 8 9 10 9	2 2 13 13 11 11 12 12 9 8 12 8 10 10 10 11 12	N=4 5 6 7 1 1 2 2 2 4 5 4 3 3 3	005	Con 0 2 3 7 7 5 8 10 8 7 6 6 8 8 8 7 7 7	mbi 1 17 12 12 9 18 16 21 18 14 19 13 15 13	23 24 21 24 17 17 14 16 23 16 19 20 19 24 16	N° 3 7 11 9 11 3 4 6 6 7 4 8 9 6 6 4 7 7 201	1 0 1 1 4 3 1 2 3 1 1 1 1 1 2 0

Garrison Equipment Based on average ratings for each equipment item

			I (ROU	P				RO	P			IC	I (RO	JΡ
equipment item	Cy	'cle	1	14-	20	C	ycle		N-	31	(٥٤	L d	nec	1 H	-51
	0	_1_	2	3	4	0	1	2	3	4		<u> </u>	1	2	3	_
Milk Dispenser	0	4	0	0	0	0	0	3	2	0	()	4	3	2	C
Hobart Mixer	0	0	1	3	0	0	0	2	2	1	()	C	3	5	3
Coffee Urn	0	0	2	2	0	0	2	2	0	0	()	2	4	2	C
Meat Slicer	0	0	3	2	0	0	2	1	0	0	()	2	4	2	C
Deep Fat Fryer	1	1	0	0	0	0	2	1	0	0	3	L	3	2	0	C
Convection Oven	0	1	2	2	0	0	1	2	0	0	C)	2	4	2	C
Ice Cream Machine	0	0	0	3	0	0	0	2	0	0	í)	٥	2	3	C
Gas Griddle	0	0	2	1	0	0	0	6	. 0	0	()	0	8	1	_ (
TOTAL	Н	9	10	13	0	0	7	19	4	т	-	•	13	53	17	-
PERCENT OF TOTAL	3.3	20.0	33.3	43.3	0.0	0.0	22.6	61.3	12.9	3.2	4	•	21.3	47.5	27.9	9,
																
	2	THE STATE	-P/	CEL)		SEL	:-P)	CEI)		S	elf	'-P)	CE	D
equipment item	_	cle			23		SELI YCl) :27	(nec Pl		
EQUIPMENT ITEM	_						ycle									
	Cy	/cl	1	N=	23	C	ycle 1	2	N= 3	27		0	nb i	nec	N	-50
Milk Dispenser	Cy 0	cle 1	2	N= 3	23 4	0 0	ycle 1	2	N= 3	27 4) L	abi	ne c	3	-5 0
Milk Dispenser	Cy 0	1 1	1 2	N= 3	23	0	ycle 1 1 2	2 2	N= 3	27 4 0	1) L	1 2	2 3	3	-50 -4
Milk Dispenser Hobart Mixer Coffee Urn	0 0 1 0	1 1 0	1 1	N=3 0	0 0	0 0	ycle 1 1 2	2 2 1	N= 3 0	27 4 0 0	1	L S	2 2	3 2	0 1	- 5 0
Milk Dispenser Hobart Mixer Coffee Urn Meat Slicer	Cy 0 1 0 1	1 0 3	1 1 1	N=3 0 1	0 0	0 0 0 2	1 2 1 2	2 2 1 0	0 0 0	0 0	1 3	L S	2 2 4	3 2	0 1 0	- 5 0
Milk Dispenser Hobart Mixer Coffee Urn Meat Slicer	Cy 0 1 0 1 0	1 1 0 3	1 1 1 1	N=3 0 1 0	23 4 0 0 0	0 0 0 2	1 2 1 2	2 2 1 0	N=3 0 0 0	0 0 0 0		L L	1 2 2 4 3	3 2 1	0 1 0	-50 0 0
Milk Dispenser Hobart Mixer Coffee Urn Meat Slicer Deep Fat Fryer	0 1 0 1 0 1	1 0 3 1	1 1 1 0	N=3 0 1 0	0 0 0 0	0 0 0 2 1	1 2 1 2	2 2 1 0 0	N-3 0 0 0 0	0 0 0 0 0	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	L L L	1 2 2 4 3	3 2 1 1	0 1 0 1 0	-50 0 0
Milk Dispenser Hobart Mixer Coffee Urn Meat Slicer Deep Fat Fryer Convection Oven	0 1 0 1 0 1	1 0 3 1 1 2	1 1 1 1 0	N=3 0 1 0 1 0	23 4 0 0 0 0 0	0 0 0 2 1 1	1 1 2 1 2 1 3	2 2 1 0 0	N=3 0 0 0 0	0 0 0 0 0	11 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	L L L	1 2 2 4 3 2 5	3 2 1 1 0 2	0 1 0 1 0	-50 0 0 0 0
Milk Dispenser Hobart Mixer Coffee Urn Meat Slicer Deep Fat Fryer Convection Oven Ice Cream Machine	Cy 0 1 0 1 0 1 1	1 0 3 1 1 2	1 1 1 1 0 0	N-3 0 1 0 1 0	0 0 0 0 0 0	0 0 0 2 1 1 0	1 1 2 1 2 1 3 4	2 2 2 1 0 0 0 2 0	0 0 0 0 0	0 0 0 0 0 0	11 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1 2 2 4 3 2 5	3 2 1 1 0 2	0 1 0 1 0 0 0	-50 0 0 0 0 0 0 0

Garrison Equipment
(Based on individual ratings for each equipment item.)

		_	CI				_		GRO				CI		UP
EQUIPMENT ITEM		•	1			_	_		N=4				ned		-91 2
	0	_1		_3	4	0	_1	2	3	4	0	1	2	3	4
Milk Dispenser	3	21	37	0	0	0	1	13	34	27	3	22	50	34	27
Hobart Mixer	4	3	6	18	28	0	2	21	16	36	4	5	27	34	64
Coffee Urn	0	0	24	31	6	2	18	34	6	0	2	18	58	37	6
Meat Slicer	3	5	13	24	29	0	10	27	8	0	3	15	40	32	29
Deep Fat Fryer	16	6	6	0	0	0	11	25	9	0	16	17	31	9	0
Convection Oven	2	5	32	26	11	0	0	18	26	1	2	5	50	52	12
Ice Cream Machine	0	3	7	13	21	0	4	14	9	3	0	7	21	22	24
Gas Griddle	0	2	16	15	11	0	1	25	64	0	0	3	41	79	11
TOTAL	88	45	141	127	106	8	47	177	172	29	8	92	318	299	173
PERCENT OF TOTAL	6.3	10.1	31.8	28.6	23.9	. 0	10.1	38.1	37.0	14.4	3.3	10.1	34.9	32.8	19.0
equipment item	C	ycl	F-P)	N=:	345	C)	ycle	2	N=4	105	Co	m bi		N:	-75 0
W.11. D	0					0	1		_3	4	0		-	_3	4
Milk Dispenser	12 2	5 1	16 2		16	2		21 33		0		_	37		1
Hobart Mixer	_	_	_	_		_	•	-	4	0	4	-	35		
- 66		71	32	6	0	T-P	25	4	0	0	32	46	36	6	0
	16				_	_			_						_
Meat Slicer	1	5		14	5	_	31		0	0	3		32		5
Coffee Urn Meat Slicer Deep Fat Fryer	1		20 6	1 4 0	5 0	14	16	0	0	0	_	36 34	32 6	0	0
Meat Slicer	1	5	6		_	14		0	-	_	20		6		•
Meat Slicer Deep Fat Fryer	1 6 11	5 18	6 20	0	0	14	16	0 55	0	0	20 11	34	6 75	0	0
Meat Slicer Deep Fat Fryer Convection Oven	1 6 11	5 18 14 13	6 20	0	0	14	16 14 39	0 55	0 6 7	0	20 11	34 28 52	6 75	0 6 7	0
Meat Slicer Deep Fat Fryer Convection Oven Ice Cream Machine	1 6 11 7	5 18 14 13	6 20 10	0	0 0	14 0 12	16 14 39	0 55 17	0 6 7	0 0	20 11 19	34 28 52 3	6 75 27 52	0 6 7 35	0 0

FREQUENCY OF RAW SCORES
Recipe Conversion

Number		ICI GROUP		SEL	F-PACED G	ROUPS
Correct	Cycle 1		Combined	Cycle 1	Cycle 2	
	N=16	N=16	N=32	N=14	N=14	N=28
0	2	3	5	2	1	3
1	1	2	3	2	1	3
2	0	1	1	1	0	1
3	1	1	2	0	1	1
4	1	1	2	2	0	2
5	2	0	2	2	1	3
6	2	0	2	1	2	3
7	2	٥	2	1	2	3
8	2	2	4	1	2	3
9	1	0	1	1	0	1
10	0	1	1	0	0	0
11	2	0	2	0	0	0
12	0	1	1	0	2	2
13	0	Q	0	0	1	1
14	0	2	2	0	0	0
15	0	٠ ،	0	0	1	1
16	0	0	0	1	0	1
17	0	0	0	0	0	0
18	0	2	2	0	0	0
19	0	0	0	o	0	0

COMBINED RATINGS

Cycle 1 -- Cycle 2

Rating Tabulation Summaries

Completion Tasks
Procedures
Conffdence/Attitude Indicators
Cooking Skills
Garrison Equipment

Key to Tabulation Categories

N - Total number of individual criterion rated.

TOT - Sum of ratings on all criteria.

AVG - Mean score of all ratings (TOT divided by N)

t - Percent of possible score (Possible = N times 4)

COMPLETION TASK RATINGS

Small Quantity Cooking and Baking
Summary by Food Item

				<u> </u>	·,							
		ICI	Cycl	e 1		ici	Cycl	e ż	I	CI C	OMBIN	ED
	TOT	N	AVG		TOT	N	AVG	*	TOT	N	AVG	*
S ala d	118	48	2.5	61.5	102	45	2.3	56.7	220	93	2.4	59.1
Soup	98	45	2.2	54.4	86	39	2.2	55.1	184	84	2.2	54.8
Entre	98	45	2.1	54.4	97	45	2.2	53.9	195	90	2.2	54.2
Vegetable	79	36	2.2	54.9	87	42	2.1	51.8	166	78	2.1	53.2
COOKING ITEMS	393	174	2.3	56.5	372	171	2.2	54.4	765	345	2.2	55.4
Biscuits	87	45	1.9	48.3	109	45	2.4	60 .6	196	90	2.2	54.4
Muffins	84	39	2.2	53.8	99	45	2.2	55.0	183	84	2.2	54.5
French Toast	72	33	2.2	54.5	34	15	2.3	56.7	106	48	2.2	55.2
Omelet	35	12	2.9	72.9	73	30	2.4	60.8	108	42	2.6	64.3
Chocolate Cake	13 2 ·	45	2.9	73.3	146	45	3.2	81.1	278	90	3.1	77.2
Frosting	130	42	3.1	77.4	125	45	2.8	65.4	255	87	2.9	73.3
BAKING ITEMS	54 0	216	2.5	67.5	586	225	2.6	65.1	1126	441	2.6	63.8
GROUP TOTALS	933	390	2.4	59.8	958	396	2.4	60.5	1891	786	2.4	60.1
	Self	-Pace	d Cy	cle l	Self	-Pace	d Cy	cle 2	Self	-Pace	d Com	bined
	TOT	N	AVG	*	TOT	N	AVG		TOT	N	AVG	*
Salad	101	42	2.4	60.1	71	33	2.2	53.8	172	75	2.3	57.3
Soup	92	39	2.4	59.0	71	33	2.2	53.8	163	72	2.3	56.6
Entre	105	42	2.5	62.5	93	42	2.2	55.4	198	84	2.4	58.9
••	0.5	42	2 2	F.C. F	0.3	40	2 6	E4 0	107	0.4	2 2	5 F 7

	Self	-Pace	d Cy	cle l	Self	-Pace	d Cy	cle 2	Self	-Pace	d Com	bined
· · · · · · · · · · · · · · · · · · ·	TOT	N	AVG	• •	TOT	N	AVG	- 8	TOT	N	AVG	*
Salad	101	42	2.4	60.1	71	33	2.2	53.8	172	75	2.3	57.3
Soup	92	39	2.4	59.0	71	33	2.2	53.8	163	72	2.3	56.6
Entre	105	42	2.5	62.5	93	42	2.2	55.4	198	84	2.4	58.9
Vegetable	95	42	2.3	56.5	92	42	2.2	54.8	187	84	2.2	55.7
COOKING ITEMS	393	165	2.4	59.5	327	150	2.2	54.5	720	315	2.3	57.1
Biscuits	65	39	1.7	41.7	68	42	1.6	40.5	133	81	1.6	41.0
Muffins	87	39	2,2	55.8	. 90	42	2.1	53.6	177	81	2.2	54.6
French Toast	27	12	2,3	56.3	80	33	2.4	60.8	107	45	2.4	59.4
Omelet	69	30	2.3	57.5	28	12	2.3	58.3	97	42	2.3	57.7
Chocolate Cake	126	42	3.0	75.0	109	39	2.8	69.9	235	81	2.9	72.5
Frosting	107	42	2.5	63.7	97	39	2.5	62.2	204	81	2.5	63.0
BAKING ITEMS	481	204	2.4	58.9	472	207	2.3	57.0	953	411	2.3	58.0
GROUP TOTALS	874	369	2.4	59.2	799	357	2.2	56.0	1673	726	2.3	57.6

COMPLETION TASK RATINGS Small Quantity Cooking and Baking Summary by Criterion

			ICI	Cycle	1		ICI	CYCLE	2	1	CI C	combin	ed
		TOT	N	AVG		TOT	N	AVG	•	TOT	N	AVG	8
Cooking		141	58	2.4	60.8	132	57	2.3	57.9	272	115	2.4	59.3
Baking		193	72	2.7	67.0	204	75	2.7	68.0	397	147	2.7	67.5
CRITERION 1	-	334	130	2.6	64.2	336	132	2.5	63.6	670	262	2.6	66.5
Cooking		128	58	2.2	55.2	120	57	2.1	52.6	248	115	2.2	53.9
Baking		174	72	2.4	60.4	188	75	2.5	62.7	362	147	2.5	61.6
CRITERION 2	=	302	130	2.3	58.1	308	132	2.3	58.3	610	262	2.3	60.
Cooking		124	58	2.1	53.4	120	57	2.1	52.6	244	115	2.1	53.0
Baking		173	72	2.4	60.1	194	75	2.6	64.7	367	147	2.5	62.
CRITERION 3	=	297	130	2.3	57.1	314	132	2.4	59.5	611	262	2.3	60.0
ooking Total		393	174	2.3	56.5	372	171	2.2	54.4	765	345	2.2	55.
Baking Total		540	216	2.5	67.5	586	225	2.6	65.1	1126	441	2.6	63.
GROUP TOTAL	=	933	390	2.4	59.8	958	396	2.4	60.5	1891	786	2.4	60.

		Self	-Pace	a Cy	cle 1	Self	-Pace	d Cy	cle 2	Self	-Pace	d Com	bined
	<u>. </u>	TOT	N	AVG	- 8	TOT	N	AVG		TOT	N	AVG	
Cooking		136	55	2.5	61.8	109	50	2.2	54.5	245	105	2.3	58.3
Baking		169	68	2.5	62.1	164	69	2.4	59.4	333	137	2.4	60.8
CRITERION 1	=	305	123	2.5	62.0	273	119	2.3	57.4	578	242	2.4	59.7
Cooking		131	55	2.4	59.5	109	50	2.2	54.5	240	105	2.3	57.1
Baking		150	68	2.2	55.1	151	69	2.2	54.7	301	137	2.2	59.9
CRITERION 2		281	123	2.3	57.1	260	119	2.2	54.6	541	242	2.2	55.9
Cooking		126	55	2.3	57.3	109	50	2.2	54.5	235	105	2.2	56.0
Baking		162	68	2.4	59.6	157	69	2.3	56.9	319	137	2.3	58.2
CRITERION 3	=	288	123	2.3	58.5	266	119	2.2	55.9	554	242	2.3	57.2
cooking Total		393	165	2.4	59.5	327	150	2.2	54.5	720	315	2.3	57.1
Baking Total		481	204	2.4	58.9	472	207	2.3	57.0	953	411	2.3	58.0
GROUP TOTAL	=	874	369	2.4	59.2	799	357	2.2	56.0	1673	726	2.3	57.6

PROCEDURES RATINGS
Small Quantity Cooking and Baking

			ICI	Cycle	1		ICI	Cycle	2	I	CI C	ombin	ed
		TOT	N	AVG	3	TOT	N	AVG	•	TOT	N	AVG	8
CRITERION I	ı	91	26	3.5	87.5	88	30	2.9	73.3	179	56	3.2	79.9
:	2	97	32	3.0	75.8	78	30	2.6	65.0	175	62	2.8	70.6
3	3	94	31	3.0	75.8	76	30	2.5	63.3	170	61	2.8	69.7
4	4	99	32	3.1	77.3	76	30	2.5	63.3	175	62	2.8	70.6
	5	100	32	3.1	78.1	76	30	2.5	63.3	176	62	2.8	71.0
•	5	76	30	2.5	63.3	64	30	2.1	53.3	140	60	2.3	58.3
7	7	77	32	2.4	60.2	61	30	2.0	50.8	138	62	2.2	55.6
8	3	85	32	2.7	66.4	75	30	2.5	62.5	160	62	2.6	64.5
ġ	9	71	31	2.3	57.3	59	30	2.0	49.2	130	61	2.1	52.3
10)	65	30	2.2	54.2	66	30	2.2	55.0	131	60	2.2	54.6
11	L	78	31	2.5	62.9	68	30	2.3	56.7	146	61	2.4	59.8
TOTALS	5	933	340	2.7	68.6	787	330	2.4	59.6	1720	670	2.6	64.2

	Self	-Pace	d Cy	cle l	Self	-Pace	d Cy	cle 2	Self	-Pace	d Com	bined
	TOT	N	AVG	•	TOT	N	AVG		TOT	N	AVG	-
CRITERION 1	60	20	3.0	75.0	83	28	3.0	74.1	143	48	3.0	74.5
2	79	29	2.7	68.1	66	28	2.4	58.9	145	57	2.5	63.6
3	81	29	2.8	69.8	66	28	2.4	58.9	147	57	2.6	64.5
4	7 5	28	2.7	67.0	76	28	2.7	57.9	151	56	2.7	67.4
5	81	28	2.9	72.3	71	28	2.5	63.4	152	56	2.7	67.9
6	66	28	2.4	58.9	54	28	1.9	48.2	120	56	2.1	53.6
7	62	29	2.1	53.4	51	28	1.8	45.5	113	57	2.0	49.6
8	72	27	2.7	66.7	72	28	2.6	64.3	144	55	2.6	65.5
9	60	27	2.2	55.6	58	28	2.1	51.8	118	55	2.1	53.6
10	56	29	1.9	48.3	55	28	2.0	49.1	111	57	1.9	48.7
11	63	27	2.3	58.3	63	28	2.3	56.3	126	55	2.3	57.3
TOTALS	762	302	2.5	63.1	711	308	2.3	57.7	1473	610	2.4	60.4

CONFIDENCE/ATTITUDE INDICATOR RATINGS Small Quantity Cooking and Baking

		ICI	Cycl	.e 1		ICI	Cycl	e 2	I	CI .	ombin	ed
	TOT	N	AVG	•	TOT	N	AVG	3	TOT	N	AVG	•
Criterion 1	95	32	3.0	74.2	82	30	2.7	68.3	177	62	2.9	71.4
2	92	32	2.9	71.9	83	30	2.8	69.2	17.5	62	2.8	70.6
3	92	31	3.0	74.2	85	30	2.8	70.8	177	61	2.9	72.5
4	87	29	3.0	75.0	81	30	2.7	67.5	168	59	2.9	71.2
5	85	31	2.7	68.6	75	30	2.5	62.5	160	61	2.6	65.6
TOTALS	451	155	2.9	72.7	406	150	2.7	67.7	857	305	2.8	70.3

	Self	-Pace	d Cy	cle 1	Self	-Pace	d Cy	cle 2	Self	-Pace	d Con	bined
	TOT	N	AVG		TOT	N	AVG		TOT	N	AVG	- 8
Criterion 1	77	29	2.7	66.4	72	28	2.6	64.3	149	57	2.6	65.4
2	72	29	2.5	62.1	77	28	2.8	68.8	149	57	2.6	65.4
3	76	29	2.6	65.5	78	28	2.8	69.6	154	57	2.7	67.5
4	78	28	2.8	69.6	73	28	2.6	65.2	151	56	2.7	67.4
5	68	27	2.5	63.0	65	27	2.4	63.0	133	54	2.5	61.6
TOTALS	371	142	2.6	65.3	342	139	2.5	62.9	713	281	2.5	63.4

COOKING SKILLS RATINGS

		ICI	Cycl	e 1		ICI	Cycl	e 2	I	CI Co	mbine	d
	TOT	N	AVG		TOT	N	AVG	1	TOT	N	AVG	
Criterion 1	30	14	2.1	53.6	19	10	1.9	47.5	49	24	2.0	51.0
2	32	14	2.3	57.1	17	10	1.7	42.5	49	24	2.3	54.2
3	33	14	2.4	58.9	19	10	1.9	47.5	52	24	2.3	54.2
4	40	14	2.9	71.4	24	10	2.4	60.0	64	24	2.8	66.7
5	30	14	2.1	53.6	15	10	1.5	37.5	45	24	1.9	46.9
TOTALS	165	70	2.4	58.9	94	50	1.9	47.0	259	120	2.2	54.0

	Self-	-Pace	d Cy	cle 1	Self-	-Pace	d Cy	cle 2	Self	-Pace	d Con	bined
	TOT	N	AVG	8	TOT	N	AVG	8	TOT	Ŋ	AVG	
Criterion l	33	14	2.4	58.9	27	12	2.3	56.3	60	26	2.3	57.7
2	28	14	2.0	50.0	25	12	2.1	52.1	53	26	2.0	51.0
3	34	14	2.4	60.7	27	12	2.3	56.3	61	26	2.4	58.7
4	3 0	14	2.1	53.6	.23	12	1.9	47.9	53	26	2.0	51.0
5	29	14	2.1	51.8	22	12	1.8	45.8	51	26	1.9	49.0
TOTALS	154	70	2.2	55.0	124	60	2.1	51.7	278	130	2.1	53.5

COMPLETION TASK RATINGS Garrison Equipment

		ICI	Cycl	e 1		ICI	Cycl	.e 2	I	CI Co	mbine	d
	TOT	N	AVG	<u> </u>	TOT	N	AVG	•	TOT	N	AVG	8
Criterion 1	82	30	2.7	68.3	82	31	2.6	66.1	164	61	2.7	67.2
2	85	30	2.8	70.8	85	31	2.7	68.5	170	61	2.8	69.7
3	81	30	2.7	67.5	81	31	2.6	65.3	162	61	2.7	66.4
4	87	30	2.9	72.5	85	31	2.7	68.5	172	61	2.8	70.5
5	75	30	2.5	62.5	79	31	2.5	63.7	154	61	2.5	63.1
6	76	30	2.5	63.3	76	31	2.5	61.3	152	61	2.5	62.3
7	75	30	2.5	62.5	80	31	2.6	64.5	155	61	2.5	63.5
8	79	30	2.6	65.8	82	31	2.6	66.1	161	61	2.6	66.0
9	78	30	2.6	65.0	79	31	2.5	63.7	157	61	2.6	64.3
10	71	30	2.4	59.2	77	31	2.5	62.1	148	61	2.4	60.7
11	79	30	2.6	65.8	79	31	2.5	63.7	158	61	2.6	64.8
12	62	30	2.1	51.7	72	31	2.3	58.1	134	61	2.2	54.9
13	64	30	2.1	53.3 ,	73	31	2.4	58.9	137	61	2.2	56.1
14	75	30	2.5	62.5	77	31	2.5	62.1	152	61	2.5	62.3
15	71	30	2.4	59.2	78	31	2.5	62.9	149	61	2.4	61.1
TOTALS	1142	450	2.5	63.1	1185	465	2.5	63.7	2327	915	2.5	63.6

	Self	-Pace	d Cy	cle l	Self	-Pace	d Cy	cle 2	Self-	Paced	Comb	ined
	TOT	N	AVG	*	TOT	N	AVG		TOT	N	AVG	- 8
Criterion l	37	23	1.6	40.2	47	27	1.7	43.5	84	50	1.7	42.0
2	44	23	1.9	47.8	49	27	1.8	45.4	93	50	1.9	46.5
3	. 37	23	1.6	40.2	48	27	1.8	44.4	85	50	1.7	42.5
4	44	23	1.9	47.8	50	27	1.9	46.3	94	50	1.9	47.0
5	40	23	1.7	43.5	37	27	1.4	34.3	77	50	1.5	38.5
6	38	23	1.7	41.3	36	27	1.3	33.3	74	50	1.5	37.0
7	34	23	1.5	37.0	37	27	1.4	34.3	71	50	1.4	35.5
8	44	23	1.9	47.8	35	27	1.3	32.4	79	50	1.6	39.5
9	44	23	1.9	47.8	40	27	1.5	37.0	84	50	1.7	42.0
10	37	23	1.6	40.2	42	27	1.6	38.9	79	50	1.6	39.5
11	39	23	1.7	42.4	43	27	1.6	39.8	82	50	1.6	41.0
12	37	23	1.6	40.2	40	27	1.5	37.0	77	50	1.5	38.5
13	37	23	1.6	40.2	38	27	1.4	35.2	75	50	1.5	37.5
14	40	23	1.7	43.5	41	27	1.5	38.0	81	50	1.6	40.5
15	38	23	1.7	41.3	42	27	1.6	38.9	80	50	1.6	40.0
TOTALS	594	345	1.6	43.1	625	405	1.5	38.6	1219	750	1.6	40.6

COMPLETION TASK RATINGS

Garrison Equipment Ratings for Each Equipment Item

Cycle 1		ICI	Cycle	2	I	CI Co	mbine	d
AVG \$	TOT	N	AVG	3	TOT	N	AVG	8
1.6 40.	237	75	3.2	79.0	334	135	2.5	61.9
3.1 77.	236	75	3.1	78.7	421	135	3.1	78.0
2.8 71.	104	60	1.7	43.3	232	105	2.2	55.2
2.8 70.	88	45	2.0	48.9	343	135	2.5	63.5
0.6 15.	88	45	2.0	48.9	106	105	1.0	25.2
2.5 63.	118	45	2.6	65.6	307	120	2.6	64.0
3.2 80.	71	30	2.4	59.2	215	75	2.9	71.7
2.8 70.	243	90	2.7	67.5	369	135	2.7	68.3
2.5 63.	1185	465	2.5,	63.7	2327	915	2.5	63.6
	2.5 63.1	2.5 63.1 1165	2.5 03.1 1105 405	2.5 63.1 1165 465 2.4	2.5 63.1 1185 465 2.5, 63.7	2.5 05.1 1105 405 2.4 05.7 2527	2.5 63.1 1165 405 2.4 63.7 2327 915	2.5 03.1 1103 403 2.3 03.7 2327 913 2.3

	Self	-Pace	d Cyc	le l	Self	-Pace	d Cyc	le 2	Self-	Paced	Comb	ined
	TOT	N	_	8	TOT	N	AVG	•	TOT	N	AVG	-
Milk Dispenser	74	45	1.6	41.1	86	45	1.9	47.8	160	90	1.8	44.4
Hobart Mixer	96	30	3.2	80.0	84	45	1.9	46.7	180	75	2.4	60.0
Coffee Urn	103	75	1.4	34.3	33	45	0.7	18.3	136	120	1.1	28.3
Meat Slicer	107	45	2.4	59.4	55	45	1.2	30.6	162	90	1.8	45.0
Deep Fat Fryer	30	30	1.0	33.3	16	30	0.5	13.3	46	60	0.8	19.2
Convection Oven	54	45	1.2	30.0	142	75	1.9	47.3	196	120	1.6	36.7
Ice Cream Maker	66	45	1.5	36.7	94	75	1.3	31.3	160	120	1.3	33.3
Gas Griddle	64	60	2.1	71.1	115	45	2.6	63.9	179	105	1.7	42.6
TOTALS	594	345	1.6	43.1	625	405	1.5	38.6	1219	750	1.6	40.6

COMPLETION TASK RATINGS

Garrison Equipment
Ratings for Each Task Competency

		ICI	Cycl	e l		ICI	Cycl	e 2	I	CI Co	mbine	đ
	TOT	N	AVG	3	TOT	N	AVG		TOT	M	AVG	8
Check Equipment	170	60	2.8	70.8	167	62	2.7	67.3	337	122	2.8	69.1
Safety Precautions	168	60	2.8	70.0	166	62	2.7	66.9	334	122	2.7	68.4
Start-Operate Equipment	225	89	2.5	62.5	235	93	2.5	63.2	460	182	2.5	63.2
Stop Equip m ent	157	60	2.6	65.4	161	67	2.6	64.9	318	127	2.5	62.6
Disassemble Equipment	150	60	2.5	62.5	156	62	2.5	62.9	306	122	2.5	62.7
Clean Equ à pment	125	60	2.1	52.1	145	62	2.3	58.5	270	122	2.2	55.3
Reassemble Equipment	147	59	2.5	61.3	155	62	2.5	62.5	302	121	2,5	62.4
TOTALS	1142	450	2.5	63.1	1185	465	2.5	63.7	2327	915	2.5	63.6

	Self	-Pace	d Cyc	le l	Self	-Pace	d Cyc	le 2	Self	Self-Paced Comb TOT N AVG 181 100 1.8 179 100 1.8 222 127 1.7 163 100 1.6 161 100 1.6 152 100 1.5 161 100 1.6			
	TOT	N	AVG		TOT	N	AVG		TOT	N	AVG	- 8	
Check Equipment	85	46	1.6	46.2	96	54	1.8	44.4	181	100	1.8	45.3	
Safety Precautions	81	46	1.8	44.0	98	54	1.8	45.4	179	100	1.8	44.8	
Start-Operate Equipment	112	46	2.4	54.1	110	81	1.4	34.0	222	127	1.7	43.7	
Stop Equipment	88	46	1.9	47.8	75	54	1.4	34.7	163	100	1.6	40.8	
Disassemble Equipment	76	46	1.7	41.3	85	54	1.6	39.4	161	100	1.6	40.3	
Clean Equipment	74	45	1.6	40.2	78	54	1.4	36.1	152	100	1.5	38.0	
Reassemble Equipment	78	46	1.7	42.4	83	54	1.5	38.4	161	100	1.6	40.3	
TOTALS	594	345	1.6	43.1	625	450	1.5	38.6	1219	750	1.6	40.6	

COMBINED RATINGS

Cycle 1 -- Cycle 2

Reaction Surveys

REACTION SURVEY Perceptions of Competency

TASK COMPETENCY				ycle			I Cyc				m bir	
		TOT	N	AVG	-	TOT	N AV	G &	TOT	N	AVG	•
l. Read and follow recipe c	ards	34	12	2.8	94.4	27	10 2.	7 90.0	61	22	2.8	92.
2. Prepare food for proper:	taste	30	11	2.7	90.9	26	10 2.	6 86.7	7 56	21	2.7	88.
t	exture	29	11	2.6	87.9	24	10 2.	4 80.0	53	21	2.5	84.
appe	arance	29	11	2.6	87.9	24	10 2.	4 80.0	53	21	2.5	84.
a	arnish		_	-	84.8	23	10 2.	3 76.7	7 51	21	2.4	81.
3. Prepare and maintain wor					97.2	32	12 2.	7 88.9	67	24	2.8	93.
1. Use sanitation & safety	_				97.2	34	12 2.	8 94.4	6	24	2.9	95.
5. Use clean as you go proc					91.7			8 94.4			2.9	
Prepare food without was	te				83.3	29	12 2.	4 80.6			2.3	
7. Use knife properly to:	slice				97.2			6 87.9			2.8	
	shred				80.6	26	11 2.	4 78.8	55	23	2.4	79.
	cube			-	77.8			5 84.8			2.4	
	dice				91.7			6 87.8			2.7	
	chop			3.0				7 90.9			2.9	
	mince			3.0				5 84.8			2.8	
3. Weigh dry ingredients pr				-	88.9			7 88.9			2.7	
measure liquid ingre					88.9			7 90.9			2.7	
. Use proper procedure for	-				91.7			6 86.1			2.7	
	salads				93.9			8 94.4			2.8	
basic					84.8			6 86.7			2.6	
-	breads			-	77.8			8 93.9	-		2.6	
C	ookies				75.0			8 94.4			2.5	
	cakes				88.9			8 91.7		_	2.7	
	rolls				86.1			9 97.0			2.7	
	pies				75.0			8 91.7			2.5	
	baking				91.7			6 86.1			2.7	
	asting			-	86.1			6 87.9			2.6	
	frying			3.0				6 86.1			2.8	
	aising				84.8			1 69.7			2.3	
stewing or b	_	_			87.9			4 78.8			2.5	
2. Operate and maintain:	mixer			-	94.4			7 88.9			2.8	
	slicer				91.7			3 77.8			2.5	
	ee urn				94.4			4 80.6			2.6	
milk dis	_				97.2			6 86.1			2.8	
3w #-+	oven				88.9 87.9			5 83.3			2.6	
deep fat								5 83.3			2.6	
3. Explain function of:	mixer				93.9			4 80.6				
	slicer			3.0				2 72.2			2.4	
	ee urn							3 75.0			2.6	
milk dis	-				97.0			4 80.6 2 72.2			2.7 2.3	
3 8-4	oven				81.8 84.8							
deep fat	rryer				75.7			3 77.8 2 66.6			2.4	
4. Convert recipes					93.9			2 00.0 7 83.3			2.7	
	- E3											
5. Ask questions to: prepar operate equ				3.0				7 83.3			2.5	

ICI GROUP TOTALS

1342 521 2.6 85.9 1308 513 2.6 85.0 2650 1034 2.6 85.4

Rating Scale

0 = can't do

1 = little

2 = somewhat 3 = very well

REACTION SURVEY
Perceptions of Competency

TASK COMPETENCY		P)	_	le l	5		Cycl		2eT	r-Pa	ced	Tota:
	TOT	N	AVG	•	TOT	N	AVG	•	TOT	N	AVG	
. Read and follow recipe cards	15	7	2.1	71.4	31	13	2.4	79.5	46	20	2.3	76.7
. Prepare food for proper: taste	17	8	2.1	70.8	32	12	2.7	88.9				81.7
texture	15	8	1.9	62.5	30	12	2.5	83.3	45	20	2.3	75.0
appearance	15	8	1.9	62.5	30	12	2.5	83.3	45	20	2.3	75.0
garnish	19	8	1.9	79.2	28	12	2.3	77.8	47	20	2.4	78.3
3. Prepare and maintain work area	19	8	2.4	79.2	35	13	2.7	89.7	54	21	2.6	85.7
. Use sanitation & safety proced	22	8	2.8	91.7	35	13	2.7	89.7	57	21	2.7	90.5
o. Use clean as you go procedures	18	8	2,.3	75.0	32	13	2.5	82.1	50	21	2.4	79.4
. Prepare food without waste	21			87.5				84.6	54	21	2.6	85.7
$^\prime$. Use knife properly to: slice	21			87.5				91.7	54	20	2.7	90.0
shred				70.8				77.8	45	20	2.3	75.0
cube	-			75. 0				86.1	49	20	2.5	81.7
dice				76.2				88.9	48	19	2.5	84.2
chor				75.0				88.9				83.3
mince				83.3				66.6	44	20	2.2	73.3
. Weigh dry ingredients properly				83.3				91.7				88.3
measure liquid ingredients				79.2				91.7	52	20	2.6	86.7
. Use proper procedure for soups				79.2				94.4				88.3
salads			3.0					91.7				95.0
basic sauces				62.5				77.8				71.7
). Prepare bakery items: breads	15			62.5				86.1				76.7
cookies				79.2		-	2.8					88.3
cakes				83.3			2.6		51	20	2.6	85.0
rolls	-			70.8				91.7	50	20	2.5	83.3
pies				66.6				86.1	47	20	2.4	78.3
. Prepare food items by: baking				95.2				88.9	52	19	2.7	91.2
roasting	•			57.1				75.0				68.4
frying				85.7				86.1				86.0
braising				66.7			2.4					75.4
stewing or boiling				52.4				72.2				64.9
. Operate and maintain: mixer				95.8				91.7				91.7
slicer				54.2				75.0				66.7
coffee urn		-		33.3			1.7					46.7
milk dispenser				62.5				91.7				80.0
oven				79.2			2.1					73.3
deep fat fryer		_		66.7			2.4					75.0
Explain function of: mixex		_		91.7		_	2.3					83.3
slicer				58.3			1.8					58.3
coffee urn				33.3				50.0				43.3
milk dispenser				70.8				72.2				71.7
oven				66.7				55.6				60.0
deep fat fryer				58.3				58.3				58.3
. Convert recipes	6			25.0				75.0				57.9
. Ask questions to: prepare food				100				97.2				98.2
operate equipment	21	7	3.0	100	36	12	3.0	T00	57	19	3.0	T00

Rating Scale

0 = Can't do 1 = little 2 = somewhat 3 = very well

REACTION SURVEY
Factors of the Training Program

	FACTOR	IC	I (ycle	1	ICI	Cycl	e 2	ICI Combined			
		TOT	N	AVG	•	TOT N	AVG	-	TOT	N	AVG	•
1.	I was told what I was going to learn and why.	47	12	3.9	97.9	54 15	3.6	90.0	101	27	3.7	93.5
) 2.	My instructor demonstrated each thing I was to learn.	4 6	12	3.8	95.8	55 15	3.7	91.7	100	27	3.7	97.6(
3.	My instructor made sure I understood what to do.	46	12	3.8	95.8	54 15	3.6	90.0	100	27	3.7	92.6
4.	I was told what I needed to correct and was doing right.	40	12	3.3	83.3	47 15	3.1	78.3	87	27	3.2	80.6
5.	My instructor had me learn reasons for doing things.	44	12	3.7	91.7	50 15	3.3	83.3	94	27	3.5	87.0
)6.	I was asked to explain what I was learning.	44	12	3.7	91.7	48 15	3.2	80.0	92	27	3.4	85.2
7.	I was encouraged to share my ideas with other students.	43	12	3.6	89.6	46 15	3.1	76.7	89	27	3.3	82.4
8.	I was treated with respect by my instructors.	38	12	3.8	79.2	52 15	3.5	86.7	90	27	3.3	83.3
)9.	Time was wasted doing things that did not help me learn.	10	12	0.8	20.8	16 15	1.0	26.7	26	27	1.0	24.1
10.	My instructor took the time to help me understand.	44	12	3.7	91.7	53 15	3.5	88.3	97	27	3.6	89.8
11.	I was able to read and understand the written material.	39	12	3.3	81.3	50 15	3.3	83.3	89	27	3.3	82.4
12	The instruction was too fast for me to follow.	9	12	0.8	18.8	18 15	1.2	30.0	27	27	1.0	25.0
13.	The instruction was too slow and I got bored.	20	12	1.7	41.7	29 15	1.9	48.3	49	27	1.8	45.4
	UNADJUSTED GROUP TOTAL	503	156	3.2	80.6	600 195	3.1	76.9	1103 3	351	3.1	78.6
	ADJUSTED GROUP TOTAL	372	120	3.1	77.5	451 150	3.0	75 2	825 2	 270	3 0	76 2

^(*) Statements apply only to ICI training. Ratings not counted in adjusted group total.

^(@) Ratings inverted for group totals because of the way statement is worded.

REACTION SURVEY
Factors of the Training Program

	FACTOR	-		Cycle			•	Cycle					Tota
		TOT	N	AVG	-	101	<u> </u>	AVG	-	TOT	N	AVG	•
1.	I was told what I was going to learn and why.	22	8	2.8	68.8	38	3 12	3.2	79.2	60	20	3.0	75.0
2.	My instructor demonstrated each thing I was to learn.	17	8	2.1	53.1	31	12	2.6	64.6	48	20	2.4	60.0
3.	My instructor made sure I understood what to do.	26	8	3.3	81.3	38	3 12	3.2	79.2	64	20	3.2	80.0
4.	I was told what I needed to correct and was doing right.	26	8	3.3	81.3	37	1 12	3.1	77.1	63	20	3.2	78.8
5.	My instructor had me learn reasons for doing things.	24	8	3.0	75.0	32	12	2.7	66.7	56	20	2.8	70.0
6.	I was asked to explain what I was learning.	28	8	3.5	87.5	39	12	3.3	81.3	67	20	3.4	83.8
7.	I was encouraged to share my ideas with other students.	2	8	0.2	6.3	26	5 12	2.2	54.2	28	20	1.4	35.0
8.	I was treated with respect by my instructors.	28	8	3.5	87.5	41	12	3.4	85.4	69	20	3.5	86.3
9.	Time was wasted doing things that did not help me learn.	8	8	1.0	25.0	22	2 12	1.8	45.8	30	20	1.5	37.5
10.	My instructor took the time to help me understand.	22	8	2.8	68.8	39	12	3.3	81.3	59	20	3.0	73.8
11.	I was able to read and understand the written material.	26	8	3.3	81.3	39	12	3.3	81.3	65	20	3.3	81.3
12.	The instruction was too fast for me to follow.	20	8	2.5	62.5	24	12	2.0	50.0	44	20	2.2	55.0
13.	The instruction was too slow and I got bored.	6	8	0.8	18.8	7	7 12	0.6	14.6	13	20	0.7	16.3
	UNADJUSTED GROUP TOTAL	271	L04	2.6	65.1	418	156	2.7	67.0	689	260	2.7	66.3
	ADJUSTED GROUP TOTAL	224	80	2 8	70.0	322	120	2 7	67.1	546	200	2 7	68

^(*) Statements apply only to ICI training. Ratings not counted in adjusted group totals.

⁽⁰⁾ Ratings inverted for group totals because of the way statement is worded.

COMBINED RATINGS

Cycle 1 -- Cycle 2

Ratings for Small Quantity Cooking

COMPLETION TASK RATINGS
Small Quantity Cooking

		ICI	Cycle	1		ICI	Cycle	2	1	CI Co	mbine	d
	TOT	N	AVG	*	TOT	N	AVG	8	TOT	N	AVG	
Criterion 1	45	16	2.8	70.3	37	15	2.5	61.7	82	31	2.6	66.1
2	35	16	2.2	54.7	31	15	2.1	51.7	66	31	2.1	53.2
3	38	16	2.4	59.4	34	15	2.3	56.7	72	31	2.3	58.
3												
SOUP TOTAL	118	48	2.5	61.5	102	45	2.3	56.7	220	93	2.4	59.
Criterion 1	35	15	2.3	58.3	31	13	2.4	59.6	66	28	2.4	58.9
. 2	34	15	2.3	56.7	29	13	2.3	55.8	63	28	2.3	56.3
3	_29	15	1.9	48.3		13	2.0	50.0	_ 55	28	2,0	59.
SOUP TOTAL	98	45	2.2	54.4	86	39	2.2	55.1	184	84	2.2	54.
Criterion 1	33	15	2.2	55.0	33	15	2.2	55.0	66	30	2.2	55.
2	32	15	2.1	53.3	31	15	2.1	51.7	63	30	2.1	52.
3	33	15	2.2	55.0	_ 33	15	2.2	55.0	_66	30	2.2	55.
ENTRE TOTAL	98	45	2.1	54.4	97	45	2.2	53.9	195	90	2,2	54.
Criterion 1	28	12	2.3	58.3	31	14	2.2	55.4	59	26	2.3	56.
2	27	12	2.3	56.3	29	14	2.1	51.7	56	26	53.8	}
3	24	12	2.0	50.0	27	14	1.9	48.2	51	26	2.0	49.
ETABLE TOTAL	79	36	2.2	54.9	87	42	2.1	51.8	166	78	2.1	53.
GROUP TOTAL	393	174	2.3	56.5	372	171	2.2	54.4	765	345	2.2	55.
	501 <i>6</i>	-Droc		alo 1	Solf	-Dago	d 0:	clo 2	Salé	-Page	d Com	bíno
	Self TOT	-Pace N	d Cy AVG	cle 1	Self TOT	-Pace N	d Cy AVG	cle 2	Seli TOT	-Pace N A		bine
Criterion 1			AVG				_					•
Criterion 1	TOT	N	_	*	TOT	N	AVG	*	TOT	N A	VG	63.
=	TOT 38	N 14	AVG 2.7	% 67.9	TOT 25	N 11	AVG 2.3	56.8	TOT 63	N A	vG 2.5	63. 56.
2	38 32	N 14 14	2.7 2.3	67.9 57.1	25 24	11 11	2.3 2.2	56.8 54.5	TOT 63 56	N A 25 25	2.5 2.2	63. 56. 53.
2 3 SALAD TOTAL	38 32 31 101	N 14 14 14 42	2.7 2.3 2.2 2.4	% 67.9 57.1 55.4 60.1	707 25 24 22 71	N 11 11 11 33	2.3 2.2 2.0 2.2	56.8 54.5 50.0 53.8	63 56 53 172	N A 25 25 25 75	2.5 2.2 2.1 2.3	63. 56. 53.
2 3 SALAD TOTAL Criterion 1	38 32 31 101	N 14 14 14 42	2.7 2.3 2.2 2.4	67.9 57.1 55.4 60.1	707 25 24 22 71	N 11 11 11 33	2.3 2.2 2.0 2.2	56.8 54.5 50.0 53.8	63 56 53 172	N A 25 25 25 75	2.5 2.2 2.1 2.3	63. 56. 53. 57.
2 3 SALAD TOTAL Criterion 1 2	38 32 31 101 32 30	N 14 14 14 42 13 13	2.7 2.3 2.2 2.4 2.5 2.3	% 67.9 57.1 55.4 60.1 61.5 57.7	707 25 24 22 71 22 23	N 11 11 11 33	2.3 2.2 2.0 2.2 2.0	56.8 54.5 50.0 53.8 50.0 52.3	54 53	N A 25 25 25 75 24 24	2.5 2.2 2.1 2.3 2.3	63. 56. 53. 57.
2 3 SALAD TOTAL Criterion 1 2 3	38 32 31 101 32 30 30	N 14 14 14 42 13 13 13	2.7 2.3 2.2 2.4 2.5 2.3 2.3	\$ 67.9 57.1 55.4 60.1 61.5 57.7 57.7	707 25 24 22 71 22 23 26	N 11 11 11 33 11 11 11	2.3 2.2 2.0 2.2 2.0 2.1 2.4	56.8 54.5 50.0 53.8 50.0 52.3 59.1	54 53 54 53 54	N A 25 25 25 75 24 24 24	2.5 2.2 2.1 2.3 2.3 2.2 2.3	63. 56. 53. 57.
2 3 SALAD TOTAL Criterion 1 2	38 32 31 101 32 30	N 14 14 14 42 13 13	2.7 2.3 2.2 2.4 2.5 2.3	% 67.9 57.1 55.4 60.1 61.5 57.7	707 25 24 22 71 22 23	N 11 11 11 33	2.3 2.2 2.0 2.2 2.0	56.8 54.5 50.0 53.8 50.0 52.3 59.1 53.8	54 53	N A 25 25 25 75 24 24	2.5 2.2 2.1 2.3 2.3 2.2 2.3	63. 56. 53. 57. 56. 55. 58.
2 3 SALAD TOTAL Criterion 1 2 3 SOUP TOTAL Criterion 1	38 32 31 101 32 30 30 92	N 14 14 14 42 13 13 13 13 14	2.7 2.3 2.2 2.4 2.5 2.3 2.3 2.4	\$ 67.9 57.1 55.4 60.1 61.5 57.7 57.7 59.0	70T 25 24 22 71 22 23 26 71 30	N 11 11 11 33 11 11 11 33	2.3 2.2 2.0 2.2 2.0 2.1 2.4 2.2	\$ 56.8 54.5 50.0 53.8 50.0 52.3 59.1 53.8	54 53 56 53 172 54 53 56 163	N A 25 25 25 75 24 24 24 72 28	2.5 2.2 2.1 2.3 2.3 2.2 2.3 2.3	63. 56. 53. 57. 56. 55. 58.
2 3 SALAD TOTAL Criterion 1 2 3 SOUP TOTAL Criterion 1 2	38 32 31 101 32 30 30 92 34 36	14 14 14 42 13 13 13 13 14 14	2.7 2.3 2.2 2.4 2.5 2.3 2.3 2.4 2.4	\$ 67.9 57.1 55.4 60.1 61.5 57.7 57.7 59.0	707 25 24 22 71 22 23 26 71 30 32	N 11 11 11 33 11 11 11 33	2.3 2.2 2.0 2.2 2.0 2.1 2.4 2.2 2.1 2.3	56.8 54.5 50.0 53.8 50.0 52.3 59.1 53.8 53.6 57.1	54 53 56 53 172 54 53 56 163	N A 25 25 25 75 24 24 24 72 28 28 28	2.5 2.2 2.1 2.3 2.3 2.2 2.3 2.3 2.3	63. 56. 53. 57. 56. 55. 58.
2 3 SALAD TOTAL Criterion 1 2 3 SOUP TOTAL Criterion 1	38 32 31 101 32 30 30 92	N 14 14 14 42 13 13 13 13 14	2.7 2.3 2.2 2.4 2.5 2.3 2.3 2.4	\$ 67.9 57.1 55.4 60.1 61.5 57.7 57.7 59.0	70T 25 24 22 71 22 23 26 71 30	N 11 11 11 33 11 11 11 33	2.3 2.2 2.0 2.2 2.0 2.1 2.4 2.2	56.8 54.5 50.0 53.8 50.0 52.3 59.1 53.8 53.6 57.1 55.4	54 53 56 53 172 54 53 56 163	N A 25 25 25 75 24 24 24 72 28	2.5 2.2 2.1 2.3 2.3 2.2 2.3 2.3	63. 56. 53. 57. 56. 55. 58. 56.
2 3 SALAD TOTAL Criterion 1 2 3 SOUP TOTAL Criterion 1 2	38 32 31 101 32 30 30 92 34 36	14 14 14 42 13 13 13 13 14 14	2.7 2.3 2.2 2.4 2.5 2.3 2.3 2.4 2.4	\$ 67.9 57.1 55.4 60.1 61.5 57.7 57.7 59.0	707 25 24 22 71 22 23 26 71 30 32	N 11 11 11 33 11 11 11 33	2.3 2.2 2.0 2.2 2.0 2.1 2.4 2.2 2.1 2.3	56.8 54.5 50.0 53.8 50.0 52.3 59.1 53.8 53.6 57.1	54 53 56 53 172 54 53 56 163	N A 25 25 25 75 24 24 24 72 28 28 28	2.5 2.2 2.1 2.3 2.3 2.2 2.3 2.3 2.3	63. 56. 53. 57. 56. 55. 58. 56.
2 3 SALAD TOTAL Criterion 1 2 3 SOUP TOTAL Criterion 1 2 3	38 32 31 101 32 30 30 92 34 36 35	N 14 14 14 42 13 13 13 13 14 14	2.7 2.3 2.2 2.4 2.5 2.3 2.3 2.4 2.4 2.6 2.5	\$ 67.9 57.1 55.4 60.1 61.5 57.7 57.7 59.0 60.7 64.3 62.5	70T 25 24 22 71 22 23 26 71 30 32 31	N 11 11 11 33 11 11 11 33 14 14 14	2.3 2.2 2.0 2.2 2.0 2.1 2.4 2.2	56.8 54.5 50.0 53.8 50.0 52.3 59.1 53.8 53.6 57.1 55.4	54 53 56 53 172 54 53 56 163 64 68	N A 25 25 25 75 24 24 24 72 28 28 28	2.5 2.2 2.1 2.3 2.3 2.2 2.3 2.3 2.3 2.4 2.4	63. 56. 53. 57. 56. 55. 58. 56. 57. 60. 58.
2 3 SALAD TOTAL Criterion 1 2 3 SOUP TOTAL Criterion 1 2 3 ENTRE TOTAL	38 32 31 101 32 30 30 92 34 36 35 105	N 14 14 14 42 13 13 13 13 14 14 14 14	2.7 2.3 2.2 2.4 2.5 2.3 2.3 2.4 2.6 2.5 2.5	\$ 67.9 57.1 55.4 60.1 61.5 57.7 57.7 59.0 60.7 64.3 62.5	70T 25 24 22 71 22 23 26 71 30 32 31 93	N 11 11 11 33 11 11 11 42	2.3 2.2 2.0 2.2 2.0 2.1 2.4 2.2 2.1 2.3 2.2	56.8 54.5 50.0 53.8 50.0 52.3 59.1 53.8 53.6 57.1 55.4	54 53 56 53 172 54 53 56 163 64 68 66	N A 25 25 25 75 24 24 24 24 22 28 28 84	2.5 2.2 2.1 2.3 2.3 2.2 2.3 2.3 2.4 2.4	63. 56. 53. 57. 56. 55. 58. 56. 57. 60. 58.
2 3 SALAD TOTAL Criterion 1 2 3 SOUP TOTAL Criterion 1 2 3 ENTRE TOTAL Criterion 1	38 32 31 101 32 30 30 92 34 36 35 105	N 14 14 14 42 13 13 13 13 14 14 14 14	2.7 2.3 2.2 2.4 2.5 2.3 2.3 2.4 2.6 2.5 2.5	\$ 67.9 57.1 55.4 60.1 61.5 57.7 57.7 59.0 60.7 64.3 62.5 62.5	70T 25 24 22 71 22 23 26 71 30 32 31 93	N 11 11 11 33 11 11 11 44 42 14	2.3 2.2 2.0 2.2 2.0 2.1 2.4 2.2 2.1 2.3 2.2 2.2	56.8 54.5 50.0 53.8 50.0 52.3 59.1 53.8 53.6 57.1 55.4 55.4	54 53 56 53 172 54 53 56 163 64 68 66 198	N A 25 25 25 75 24 24 24 72 28 28 84 28	2.5 2.2 2.1 2.3 2.3 2.2 2.3 2.3 2.4 2.4 2.4	63. 56. 53. 57. 56. 58. 56. 57. 60. 58. 57.
2 3 SALAD TOTAL Criterion 1 2 3 SOUP TOTAL Criterion 1 2 3 ENTRE TOTAL Criterion 1 2	38 32 31 101 32 30 30 92 34 36 35 105	N 14 14 14 42 13 13 13 13 14 14 14 14	2.7 2.3 2.2 2.4 2.5 2.3 2.3 2.4 2.6 2.5 2.5 2.3	\$ 67.9 57.1 55.4 60.1 61.5 57.7 57.7 59.0 60.7 64.3 62.5 57.1 58.9	70T 25 24 22 71 22 23 26 71 30 32 31 93	N 11 11 11 33 11 11 11 42 14 14 14 14	2.3 2.2 2.0 2.2 2.0 2.1 2.4 2.2 2.1 2.3 2.2 2.3 2.1	56.8 54.5 50.0 53.8 50.0 52.3 59.1 53.8 53.6 57.1 55.4 57.1 55.4	54 53 56 53 172 54 53 56 163 64 68 66 198	N A 25 25 25 75 24 24 24 72 28 28 28 84 28 28	2.5 2.2 2.1 2.3 2.3 2.2 2.3 2.3 2.4 2.4 2.4	

PROCEDURES RATINGS
Small Quantity Cooking

		ICI	Cycle	1		ICI	Cycle	2		CI	Combi	ned
	TOT	N	AVG	8	TOT	N	AVG	- 8	TOT	N	AVG	
Criterion 1	38	12	3.2	79.2	43	15	2.9	71.7	81	27	3.0	75.0
2	49	17	2.9	72.1	37	15	2.5	61.7	86	32	2.7	61.2
3	45	16	3.1	76.6	35	15	2.3	58.3	84	31	2.7	67 .7
4	55	17	3.2	80.9	36	15	2.4	60.0	91	32	2.8	71.1
5	51	17	3.0	75.0	46	15	2.4	60.0	87	32	2.7	68.0
6	41	16	2.6	64.1	30	15	2.0	50.0	71	31	2.3	57 .3
7	41	17	2.4	60.3	32	15	2.1	53.3	73	32	2.3	57.0
8	41	17	2.4	60.3	37	15	2.5	61.7	78	32	2.4	60.9
9	36	17	2.1	52.9	28	15	1.9	46.7	64	32	2.0	50.0
10	39	16	2.4	60.9	35	15	2.3	58.3	74	31	2.4	59.6
11	43	17	2.5	63.2	35	15	2.3	58.3	7 8	32	2.4	60.9
TOTALS	483	180	2.7	67.1	384	165	2.3	58.2	867	345	2.5	62.8

	Self	-Pace	d Cy	cle 1	Self	-Pace	d Cy	cle 2	Self	-Pace	d Com	bined
	TOT	N	AVG	8	TOT	N	AVG	8	TOT	N	AVG	*
Criterion 1	38	11	3.5	86.4	41	14	2.9	73.2	77	25	3.1	77.0
2	37	15	2.5	61.7	31	14	2.2	55.4	68	29	2.3	58.6
3	40	15	2.7	6 6.7	29	14	2.1	51.8	69	29	2.4	59.5
4	40	15	2.7	66.7	32	14	2.3	57.1	72	29	2.5	62.1
5	43	15	2.9	71.7	33	14	2.4	58.9	76	29	2.6	65.5
6	33	14	2.4	58.9	26	14	1.9	46.4	59	28	2.1	52.7
7	33	15	2.2	55.0	27	14	1.9	48.2	60	29	2.1	51.7
8	39	14	2.8	69.6	37	14	2.6	66.1	76	28	2.7	67.9
9	32	14	2.3	57.1	27	14	1.9	48.2	59	28	2.1	52.7
10	28	15	1.9	46.7	28	14	2.0	50.0	56	29	1.9	48.3
11	34	14	2.4	60.7	33	14	2.2	58.9	67	28	2.4	59.8
TOTALS	397	157	2.5	63.2	344	154	2.2	55.8	741	311	2.4	59.6

CONFIDENCE/ATTITUDE INDICATOR RATINGS Small Quantity Cooking

		ICI	Cycle	1		ICI	Cycle	2	I	CI Co	mbine	d
	TOT	N	AVG	3	TOT	N	AVG	3	TOT	N	AVG	•
Criterion 1	49	17	2.9	72.1	40	15	2.7	66.7	89	32	2.8	69.5
2	49	17	2.9	72.1	40	15	2.7	66.7	89	32	2.8	69.5
3	47	16	2.9	73.4	40	15	2.7	66.7	87	31	2.8	74.2
4	44	14	3.1	78.6	39	15	2.6	65.0	83	29	2.9	71.6
5	46	16	2.9	71.9	33	15	2.2	55.0	7 9	31	2.6	63.7
TOTALS	235	80	2.9	73.4	192	75	2.6	64.0	427	155	2.6	68.9

		Self-	-Pace	d Cy	cle l	Self-	Pace	d Cy	cle 2	Self	-Pace	d Con	bined
		TOT	N	AVG		TOT	N	AVG	•	TOT	N	AVG	8
Criterion	1	41	15	2.7	68.3	32	14	2.3	57.1	73	29	2.5	62.9
	2	37	15	2.5	61.7	37	14	2.6	66.1	74	29	2.6	63.8
	3	41	15	2.7	68.3	39	14	2.8	69.6	80	29	2.8	69.0
	4	36	14	2.6	64.3	37	14	2.6	66.1	73	28	2.6	65.2
	5	33	13	2.5	63.5	27	13	2.1	51.9	60	26	2.3	58.7
TOTAL	s	188	72	2.6	63.5	172	69	2.5	62.3	360	141	2.6	63.8

COMBINED RATINGS

Cycle 1 -- Cycle 2

Ratings for Small Quantity Baking

COMPLETION TASK RATINGS small Quantity Baking

		ICI	Cycle	1			ICI	Cycle	2		I	CI Co	mbine	d
	TOT	_N	AVG	•	7	TOT	Ħ	AVG	8	1	OT	<u> N</u>	AVG	
Criterion 1	36	15	2.4	60.0		39	15	2.6	65.0		75	30	2.5	62.
2	26	15	1.7	43.3		37	15	2.5	61.7		63	30	2.1	52.
3	25	_15	1.7	41.7	_	33	15	2.2	55.0	_	58_	30	1.9	48.
BISCUITS TOTAL	97	45	1.9	48.3		109	45	2.4	60.6		96	90	2.2	54.
Criterion 1	28	13	2,2	53.8		35	15	2.3	58.3		63	28	2.3	56.
2	28	13	2,2	53.8		31	15	2.1	51.7		59	28	2.1	52.
3	28	13	2,2	53.8	_	33	15	2.2	55.0	_	61_	28	2.2	54.
MUFFINS TOTAL	84	39	2.2	53.8		99	45	2.2	55.0		83	84	2.2	54.
Criterion 1	26	11	2.4	59.1		11	5	2.2	55.0		37	16	2.3	57.
2	21	11	1.9	47.7		12	5	2.4	60.0		22	16	2.1	51.
3	25	_11	2.3	56.8		11	5	2.2	55.0		36_	16_	2.3	56.
NCH TOAST TOTAL	72	33	2.2	54.5		34	15	2.3	56.7		06	48	2.2	55.
Criterion 1	11	4	2.8	68.8		24	10	2.4	60.0		35	14	2.5	62.
2	12	4	3.0	75.0		23	10	2.3	57.5		35	14	2.5	62.
3	12	_ 4	3.0	75.0	_	26	10	2.6	65.0	_	38	14	2.7	67.
OMELET TOTAL	35	12	2.9	72.9		73	30	2.4	60.8	1	08	42	2.6	64.
Criterion 1	45	15	3.0	75.0		48	15	3.2	80.0		93	30	3.1	77.
2	45	15	3.0	75.0		46	15	3.1	76.7		91	30	3.0	75.
3	42	15	2.8	70.0		52	15	3.5	86.7	_	94	30	3.1	78.
CAKE TOTAL	132	45	2.9	73.3		146	45	3.2	81.1	2	78	90	3.1	77.
Criterion 1	47	14	3.4	83.9		47	15	3.1	78.3		94	29	3.2	81.
2	42	14	3.0	75.0		39	15	2.6	65.0		81	29	2.8	69.
3	41	14	2.9	73.2	_	39	15	2.6	65.0	_	80	29	2.8	69.
FROSTING TOTAL	130	42	3.1	77.4		125	45	2.8	65.4	2	55	87	2.9	73.
GROUP TOTAL	540	216	2.5	62.5	:	586	225	2.6	65.1	11	.26	441	2.6	63.

	Self	-Pace	d Cy	cle 1	Self-	-Pace	d Cy	cle 2	Self	-Pace	d Com	bined
	TOT	N	AVG	- 8	TOT	N	AVG	8	TOT	N	AVG	8
Criterion 1	24	13	1.8	46.2	25	14	1.8	44.6	49	27	1.8	45.4
2	19	13	1.5	36.5	21	14	1.5	37.5	40	27	1.5	37.0
3	22	_13	2.5	42.3	_33	14	1.6	39.3	44	27	1.6	40.7
BISCUITS TOTAL	65	39	1.7	41.7	68	42	1.6	40.5	133	81	1.6	41.0
Criterion 1	27	13	2.1	51.9	32	14	2.3	57.1	59	27	2.2	54.6
2	29	13	2.2	55.8	29	14	2.1	51.8	58	27	2.1	53.7
3	31	13	2.4	59.6	_29	14	2.1	51.8	_60	27	2.2	55.6
MUFFINS TOTAL	87	39	2.2	55.8	90	42	2.1	53.6	177	81	2.2	54.6
Criterion 1	10	4	2.5	62.5	28	11	2.5	63.6	38	15	2.5	63.
2	7	4	1.8	43.8	25	11	2.3	56.8	32	15	2.1	53.
3	10	4	2.5	62.5	27	11	2.4	61.8	_37	15_	2.5	61.
NCH TOAST TOTAL	27	12	2.3	56.3	80	33	2.4	60.8	107	45	2.4	59.4
Criterion 1	26	10	2.6	65.0	9	4	2.3	56.3	35	14	2.5	62.
2	22	10	2,2	55.0	10	4	2.5	62.5	32	14	2.3	57.
3	21	_10	2.1	52.5	_ 9	4	2.3	56.3	_30_	14	2.1	53.0
OMELET TOTAL	69	30	2.3	57.5	28	12	2.3	58.3	97	42	2.3	57.
Criterion 1	43	14	3.1	76.8	36	13	2.8	69.2	79	27	2.9	73.
2	40	14	2.9	71.4	34	13	2.6	65.4	74	27	2.7	68.
3	43	14	3.1	76.8	39	13	3.0	75.0	82	27	3.0	75.
CAKE TOTAL	126	42	3.0	75.0	109	39	2.8	69.9	235	81	2.9	72.
Criterion 1	39	14	2.8	69.6	34	13	2.6	65.4	73	27	3.7	67.
2	33	14	2.4	58.9	32	13	2.5	61.5	65	27	2.4	60.
3	35	14	2.5	62.5	31	13	2.4	<u>59.6</u>	_66_	27	2.4	61.
FROSTING TOTAL	107	42	2.5	63.7	97	39	2.5	62.2	204	81	2.5	63.
CROUP TOTAL	481	204	2.4	58.9	472	207	2.3	57.0	953	411	2.3	58.

PROCEDURES RATINGS
Small Quantity Baking

		ICI	Cycle	1		ICI	Cycle	2	I	CI CO	MBINE	D
	TOT	N	AVG	-	TOT	N	AVG	8	TOT	N	AVG	8
Criterion l	53	14	3.8	94.6	45	15	3.0	75.0	93	29	3.2	80.2
2	48	15	3.2	80.0	41	15	2.7	68.3	89	30	3.0	74.2
3	45	15	3.0	75.0	41	15	2.7	68.3	86	30	2.9	71.7
4	44	15	2.9	73.3	40	15	2.7	66.7	84	30	2.8	70.0
5	49	15	3.3	81.7	40	15	2.7	66.7	89	30	3.0	74.2
6	35	14	2.5	62.5	34	15	2.3	56.7	69	29	2.4	59.5
7	36	15	2.4	60.0	29	15	1.9	48.3	65	30	2.2	54.2
8	44	15	2.9	73.3	38	15	2.5	63.3	82	30	2.7	68.3
9	35	14	2.5	62.5	31	15	2.1	51.7	66	29	2.3	56.8
10	26	14	1.9	46.4	31	15	2.1	51.7	57	29	2.0	49.1
11	35	14	2.5	62.5	33	15	2.2	55.0	68	29	2.3	58.6
GROUP TOTAL	450	160	2.8	70.3	403	165	2.4	61.1	853	325	2.6	65.5

	Self	-Pace	d Cy	cle l	Self	-Pace	d Cy	cle 2	Self	-Pace	d Com	bined
	TOT	N	AVG		TOT	N	AVG	*	TOT	N	AVG	- 1
Criterion 1	32	9	3.6	89.0	42	14	3.0	75.0	74	23	3.2	80.4
2	42	14	3.0	75.0	35	14	2.5	62.5	77	28	2.8	68.8
3	41	14	2.9	73.2	37	14	2.6	66.1	78	28	2.8	69.6
4	35	13	2.7	67.3	40	14	2.9	71.4	75	27	2.8	69.4
5	38	13	2.9	73.1	38	14	2.7	67.9	76	27	2.8	70.4
6	30	14	2.1	53.6	28	14	2.0	50.0	58	28	2.1	51.8
7	29	14	2.1	51.8	24	14	1.7	42.9	53	28	1.9	47.3
8	33	13	2.5	63.5	35	14	2.5	62.5	68	27	2.5	62.9
9	28	13	2.2	53.9	31	14	2.2	60.7	59	27	2.2	54.6
10	28	14	2.0	50.0	27	14	1.9	48.2	55	28	2.0	49.1
11	29	13	2.2	55.8	30	14	2.1	53.6	59	27	2.2	54.6
GROUP TOTAL	365	145	2.5	62.9	367	154	2.4	59.6	732	299	2.4	62.9

CONFIDENCE/ATTITUDE INDICATOR RATINGS Small Quantity Baking

		ICI	Cycle	1		ICI	Cycle	2		ICI C	ombin	ed
	TOT	N	AVG	8	TOT	N	AVG		TOT	N	AVG	3
Criterion l	46	15	3.1	76.7	42	15	2.8	70.0	88	30	2.9	73.3
2	43	15	2.9	71.7	43	15	2.9	71.7	86	30	2.9	71.7
3	45	15	3.0	75.0	45	15	3.0	75.0	90	30	3.0	75.0
4	43	15	2.9	71.7	42	15	2.8	70.0	85	30	2.8	70.8
5	39	15	2.6	65.0	42	15	2.8	70.0	81	30	2.7	67.5
GROUP TOTALS	216	75	2.9	72.0	214	75	2.9	71.3	430	150	2.9	71.7

	Self-	-Pace	d Cy	cle l	Self	-Pace	d Cy	cle 2	Self	-Pace	d Com	bined
	TOT	N	AVG		TOT	N	AVG	•	TOT	N	AVG	•
Criterion 1	36	14	2.6	64.3	40	14	2.9	71.4	76	28	2.7	67.9
2	35	14	2.5	62.5	40	14	2.9,	71.4	75	28	2.7	67.0
3	35	14	2.5	62.5	39	14	2.8	69.6	74	28	2.6	66.1
4	42	14	3.0	75.0	36	14	2.6	64.3	78	28	2.8	69.6
5	35	14	2.5	62.5	35	14	2.5	62.5	70	28	2.5	67.5
ROUP TOTALS	183	70	2.6	65.4	190	70	2.7	67.9	373	140	2.7	66.6

Evaluation
Learning Strategies Training Program
94Bl0
Fort Lee Virginia

DATA FROM CYCLE 1
Groups Starting Training 15 July 1981

ICI GROUP 15 July

STUDENT CHARACTERISTICS --- Personal in Nature --

Student	<u>Ş</u>	3	ව	Age	Sex Race		Educ.		8	Apti	tude 1	Aptitude Battery Scores	y Sco	res	ŧ	Ę	ç	AIT
			1			7	TBAG	5	5	3	4	3	5	E	3	10	١	LALL
SILBAUGH	م سہ	ø	\$	77	¥	υ	01	8	96	103	94	96	66	104	92	96	66	0
SMITH	~	<	2	18	X	υ	σ,	102	95	102	86	98	86	110	93	16	97	0
SUTTON	~	•	\$	17	E	υ	σ	87	93	91	96	95	98	96	88	93	8	0
PARKER 7	_	m	ž	23	ß.	z	12	85	(*)68	6	94	81	8	8	101	83	95	0
MINOR 6	œ	~	Š	74	X	U	77	93	96	115	6	94	95	8	109	95	95	0
HICKS 9	~	m	Z	25	Σ	υ	œ	6	97	96	82	104	8	96	16	98	94	0
PACE 10	_	m	\$	18	E	ပ	07	93	96	6	66	104	97	94	88	96	87	0
BURSKEY 11		<	\$	21	X	U	თ	6	66	97	95	97	92	92	16	95	82	0
NOBLE 12	2	~	Z	20	X	z	12	86	35	95	100	80	8	93	115	8	78	0
TALBERT 14	-	ø	\$	18	Σ	z	07	82	(*)68	8	2	87	87	87	88	83	85	0
JACKSON 16	ις.	æ	\$	50	Σ.	z	12	86	86(*)	75	79	74	17	83	87	2	8	0
EMERY 17	~	<	æ	22	E	ပ	11	100	87	111	66	86	104	107	75	66	87	-
WILLIAMS 16	~	<	NG NG	28	Σ	z	0	•	•	1	ı	ı	ı	ŧ	ı	•	ı	0
TRAVER 22	2	<	S	18	Ľ	z	9	82	(*)68	80	84	87	85	87	88	8	85	0
CAREY 23	~	<	2	27	E	ပ	12	1		ı	•	ı	ı	ı	ı	ı	•	0
VILLAREAL 33	~	~	¥	18	E	ပ	10	16	88	88	9	94	16	87	81	16	106	0
SALINAS 34	=	8	2	18	Σ	ပ	12	ક	77	81	75	79	93	87	83	78	8	0
LITTLEPAGE 35	ις.	~	Z	77	(h	Z	12	82	112	8	91	98	82	9/	100	96	68	0
						;				3								
GROUP AVERAGES			101	21.1	Mele Cell		10.6	91.3	92. /	92.1	9. S.	8. O.	89.3	χ. Σ	92.3	86 5.	48.4	-1
			7 7 4		7					7								

(*) Indicates course prerequisite of a standard score of 90 or higher in OF or GT was not met. (-) Indicates data not available.

-- PERSONAL IN NATURE --

SELF-PACED GROUP
15 JULY
STUDENT CHARACTERISTICS
--- Personal in Nature ---

STUDENT	Š.	43	Comp.	Age	Sex	Race	Educ.	1 8		Apti	tude	Batte	Aptitude Battery Scores	res	}	٤	8	AIT
			.	.			Level	ð	5	3	FA	73	3	E	3	7	ړ	LATE
YODER	4	æ	æ	77	Σ	υ	11	118	115	114	109	111	109	116	118	107	121	0
WHYTE	Ŋ	<	8	20	Σ	z	12	96	97	85	82	95	86	87	96	103	83	0
PAGE	ø	<	\$	19	Σ	υ	11	86	95	8	93	93	93	96	109	94	103	0
HILL	13	Ø	2	24	Σ	z	12	ı	•	ſ	ı	ı	1	ı	ı	ı	ı	0
HERRING	15	æ	\$	23	Σ	13	12	•		ŧ	•	1	•	ı	ı	•	ı	0
JOSEPH	19	m	\$	8	Σ	ပ	77	88	83(*)	102	66	82	83	83	85	83	87	0
ANDERSON	20	~	2	20	Ĺ	z	12	92	104	97	104	100	93	92	104	96	66	7
KEEN	21	m	1	ı	•	,	i	i	•	1	ı	ı	ı	ı	ı	ı	1	
BARBER	24	~	NG	19	Σ	U	6	700	94	110	66	84	93	87	125	98	16	0
SHEPARD	25	Ø	\$	21	Σ	z	12	9/	76(*)	75	92	86	88	83	72	82	73	-
BROWN	5 6	æ	2	21	Σ	2	0	122	120	114	121	118	114	118	117	121	114	0
MOORE	27	~	2	27	Σ	z	12	84	82(*)	62	91	72	2	77	84	86	99	7
PODOLL	28	Ø	\$	18	Σ	ပ	==	115	66	116	112	109	118	118	107	109	117	0
WOMMACK	53	Д	1	ł	•	ı	•	ı	1	ı	t	1	ı	ı	ı	ı	•	•
OSTRANDER	3	K	8	17	Σ	ပ	6	103	94	103	66	103	107	108	95	104	96	-
GUILES	31	<	8	22	Σ	ပ	12	95	90	83	75	8	86	94	67	87	78	0
LONG	32	6 0	2	19	Σ	ပ	12	92	87	99	95	91	83	79	79	84	87	0
DAVIDSON	36	æ	AR	19	Σ	ပ	9	94	88	97	82	86	88	88	8	88	88	0
GROUP AVERAGE	l _M		RA=14 AR=1 NG=1	20.6	M=15	C=9 Z=2 Z=2	10.5	98.3	94.4	93.6	95.7	95.4	96.2	95.4	94.9	97.1	93.5	4

(*) Indicates course prerequiste of a standard score of 90 or higher in OF or GT was not met. (-) Indicates data not available.

-- PERSONAL IN NATURE --

ICI GROUP
15 JULY
COMPOSITE RATINGS
Percent of Total Scores

			COOKIN	IG		BAKING		co	BINED		SKILLS	TOTAL
Student Number		Items	Procedures	Confidence	Items	Procedures	Confidence	Items	Procedures	Confidence	Cooking Skills	Total
POSS:	BLE =	48	44	20	60	44	20	108	88	40	20	256
1	N •	28 41.7	23 52.3	16 65.0				28 25.9	23 26.1	16 40.0		64 48.4(*)
2	N *	6 12.5	15 34.1	6 30.0				6 5.6	15 17.0	6 15.0		27 26.5(*)
3	N	23	40	20	32	25	10	55	65	30	13	163
	•	47.9	90.9	100.0	53.3	56.8	50.0	50.9	77.3	75.0	65.0	63.7
7	N	21	24	9	40	27	15	61	51	24	6	142
	%	43.8	54.5	4 5.0	66.7	61.4	75.0	56.5	58.0	60.0	30.0	55.5
8	N &				•							
9	n	15	16	5	36	34	16	51	40	21	10	132
	*	31.3	36.4	25.0	60. 0	77.3	80.0	47.2	45.5	52.5	50.0	51.6
10	N	26	37	19	38	30	14	64	67	33	11	178
	%	5 4. 2	84.1	95.0	63.3	68,2	70.0	59.3	76.1	82.5	70.0	69. 5
11	N	23	27	15	30	23	9	53	50	2 4	13	140
	&	47.9	61.4	75.0	50.0	52.3	45.0	49.1	56.8	60.0	65.0	5 4. 7
12	N	27	27	9	39	29	11	66	56	20	8	150
	•	56.3	61.4	45. 0	65.0	65.9	55.0	61.1	63.6	50.0	40.0	58.6
14	N	23	29	8	45	37	17	68	66	25	9	168
	*	47.9	65.9	4 0.0	75.0	84.1	85.0	63.0	75.0	62.5	4 5.0	65.6
16	N	29	27	11	30	36	16	59	63	27	15	164
	&	60.4	61.4	55.0	50. 0	81.8	80.0	54.6	71.6	67.5	75. 0	64.1
17	N	23	25	16	32	25	13	55	50	29	14	148
	•	47.9	56.8	80.0	53.3	56.8	65.0	50.9	56.8	72.5	70.0	57.8
18	N	17	22	10	29	27	16	46	49	26	9	130
	&	35.4	50.0	50.0	48. 3	61.4	80.0	42.6	55.7	65.0	45. 0	50.8
22	N	24	33	20	42	36	17	66	69	37	18	190
	&	50.0	75.0	100.0	70.0	81.8	85. 0	61.1	78.4	92.5	90.0	74.2
23	N	31	38	20	36	36	17	67	74	37	13	191
	•	64.6	86.4	100.0	60.0	81.8	85.0	62.0	84.1	92.5	65.0	7 4. 6
33	N •	18 37.5	34 77.3	18 90.0	37 61. 7	27 61.4	15 75.0	55 50.9	61 69.3	22 82.5		149 58.2(*)
34	N	31	33	19	41	29	17	72	62	36	11	181
	*	64.6	75.0	95.0	68.3	65.9	85.0	66. 7	70.5	90.0	55.0	20.7
35	N	28	33	17	33	29	13	61	62	30	12	165
	•	58.3	75.0	85.0	55.0	65.9	65.0	56.5	70.5	75.0	60.0	64.5
TOTAL	•	48.2	64.6	69.1	60.0	68.2	72.0	57.6	70.7	75.2	58.9	57.031

^(*) Adjusted. Absent from duty 30-31 or 31 July

SELF-PACED GROUP 15 JULY

COMPOSITE RATINGS Percent of Total Scores

							- TOTAL	Scores				
			COOKING		<u>E</u>	AKING			MBINE		SKILLS	TOTAL
Student Number		Items	Procedures	Confidence	Items	Procedures	Confidence	Items	Procedures	Confidence	Cooking Skills	Total
POSS	IBLE :	48	44	20	60	44	20	108	88	40	20	256
4	n											
5	N	21	29	15	34	23	12	55	52	27	13	147
	•	43.7	65.9	75.0	56.7	52.3	60.0	50.9	59.1	67.5	65.0	57.4
6	N •											
13	N	28	36	18	44	26	11	72	62	29	16	179
	*	58.3	81.8	90.0	73.3	59.1	55.0	66.7	70.5	72.5	80. 0	69 .9
15	N	31	26	13	38	25	14	69	51	27	17	164
	%	64.6	59.1	65. 0	63.3	56.8	70.0	63.9	58.0	67.5	85.0	64.1
19	N	29	21	11	35	27	15	64	48	26	8	146
	*	60.4	47.7	55.0	58.3	61.4	75.0	59.3	54.5	65.0	4 0.0	57.0
20	N	32	29	14	38	30	15	68	59	29	10	166
	•	62.5	65.9	70.0	63.3	68.2	75.0	63.0	67.0	72.5	50.0	6 4. 8
21	N	32	24	11	4 0	39	16	72	63	27	8	170
	%	66.7	54.5	55.0	66. 7	88 . 6	80.0	66.7	71.6	67.5	4 0.0	66.4
24	N	25	27	8	16	17	6	41	44	14	6	105
	*	52.1	61.4	4 0.0	26.7	38.6	30.0	38.0	50.0	35.0	30.0	41. 0
25	N	26	30	17	39	25	11	65	55	28	11	159
	%	54.2	68.2	85.0	65.0	56.8	55.0	60.2	62.5	70.0	55.0	62.1
26	N	36	28	10	41	26	15	77	54	25	15	171
	*	75.0	63.6	50.0	68.3	59.1	75.0	71.3	61.4	62.5	75.0	66.8
27	N	14	25	10	20	18	10	3 4	43	20	8	105
	•	29.2	56.8	50.0	33.3	40.1	50.0	31.5	48.9	50.0	4 0.0	41. 0
28	N \$	28 58.3	29 65.9	18 90.0				28 25.9	29 33.0	18 45.0		75 56.8(*)
29	N	20	21	12	37	31	19	57	52	31	12	152
	*	41. 7	47.7	60.0	61.7	70.5	95.0	52. 8	59.1	77.5	6 0.0	59.4
30	N	34	31	16	34	21	12	68	52	28	10	158
	•	70.8	70.5	80.0	56.7	47.7	60.0	63.0	59.1	70.0	50.0	59.4
31	N	22	22	6	34	26	14	56	48	20	8	132
	•	45.8	50.0	30.0	56.7	59.1	70.0	51.9	54.5	50.0	4 0.0	51.6
32	N	17	19	9	31	31	13	48	50	22	12	132
	*	35.4	43.2	45.0	51.7	9 0.5	65.0	44.4	56.8	55.0	60.0	51.6
36	N *						·					
TOTAL	•	54.5	60.2	62.7	57.3	59.3	65.4	54.0	57.7	61.8	51.3	56.276

^(*) Adjusted. Absent from duty 30-31 July

ICI GROUP
15 JULY
COMPOSITE RATINGS
SUMMBATY BY TABKS

				SMALL OF	Vino Vino	IANTITY	COOKING	9		SM	13	OAN	LIX	SMALL QUANTITY BAKING		1	SKILLS	-	TOTALS	
	Munical	del	pelas	quos	Entre	L	Procedure	Confidenc	Biscutts	enilluM	Toast Toast	Omelet	Calce	Excepting	Procedure	Confidenc	Skills Skills	TATOT	N	NEVN
SILBAUGE	-	A	60	4	ន	و	23	13	×	×	×	×	×	×	×	×	×	64	78	2.3
HLIPS	7	~	×	×	9	×	15	. 9	×	.×	×	×	×	×	×	×	×	27	18	1.5
SULTOR	m	A	Φ	9	Ŋ	4	9	20	4	m	×	7	a	91	25	70	13	163	63	5.6
PARKER	7	Ø	4	រប	Φ	4	24	თ	7	9	4	×	#	12	27	15	9	142	63	2.3
MINOR	œ	~																		
HICKS	0	M	ø	×	m	φ	16	S	o	20	Ŋ	×	12	×	34	1 6	97	132	26	2.4
PACE	9	æ	00	7	9	S	37	19	4	ខ្ម	×	0	D	9	8	77	14	178	63	2.8
BURSICEY	7	4	00	7	co	×	27	15	m	×	7	×	σ	11	23	σ	13	140	28	2.4
MOBILE	77	ø	80	Ŋ	•	&	27	6	9	11	0	×	7	9	53	7	co	150	19	2.5
TALBERT	7	щ	7	4	9	9	53	©	7	7	ω	×	2	11	37	17	σ	168	62	2.7
JACKSON	97	A	7	4	O	o	27	#	7	×	m	×	2	9	98	91	15	164	19	2.7
DERY	17	4	σ	2	4	×	25	93	ß	•	00	×	6	7	25	13	77	148	19	2.4
WITTIME	18	<	7	7	M	×	22	9	ო	9	×	==	m	9	27	16	6	130	28	2.2
TRAVER	22	<	•	O	×	7	33	20	80	9	6	×	=	o n	×	11	18	190	19	3.1
CANEX	23	<	80	9	co	Ø	38	70	9	9	9	×	•	•	98	17	13	161	9	3.0
VILLAREAL	33	~	7	7	×	×	34	18	0	•	®	×	7	0	27	15	×	149	25	2.9
SALIMAS	¥	A	9	00	00	o	33	91	5	&	×	∞	•	12	53	11	#	181	63	5.9
LITTLEPNE	33	4	Ŋ	0	œ	φ	33	17	4	3	9	×	80	12	59	13	12	165	63	2.6
	2	TOTAL	118	86	86	6 L	483	235	81	2	72	35 1	132 1	130	051	216	165	2482		
CRITERION N	ERIO	×	48	45	45	፠	180	8	45	33	33	7	5	7	160	75	2		955	
	Z.	MEAN	2.5	2.2	2.2	2.2	2.7	2.9	1.9 2	~	2.2 2	6	2.9 3	3.1	2.8	2.9	2.4		Ì	2.599

SELF-PACED GROUP
15 JULY

COMPOSITE RATINGS Summary by Tasks

			33	SMALL QUA	O	TILL	COOKING	ភ		S	MALL	Mno	TIL	SMALL QUANTITY BAKING	10		SKILLS	TO	TOTALS	1
	илтрек	dsJ	5£1£ S	đnos	Entre	Aedersp je	broce gme	Confidence	Biscuits	Muffins	French Toast	Ошетес	Саке	Frosting	Procedure	Confidence	Cooking Skills	TATOT	N	МЕУИ
YODER	4	ø																		
WHYTE	S	æ	4	9	4	7	29	15	m	9	7	×	12	9	23	12	13	147	64	2.3
PAGE	9	Æ																		
HILL	13	£	7	7	9	œ	36	18	7	ω	×	11	6	0	56	7	16	179	64	2.8
HERRING	15	æ	80	ω	σ	9	26	13	4	9	×	9	6	6	25	14	17	164	63	5.6
JOSEPH	19	Ø	ω	œ	σ	4	21	7	4	m	×	9	11	11	27	15	80	146	19	2.4
ANDERSON	20	æ	10	ω	7	7	29	14	4	7	ω	×	12	7	30	15	10	166	64	5.6
KEEN	21	æ	2	10	7	ដ	24	11	Φ	9	×	7	12	7	39	16	œ	170	63	2.7
BARBER	24	K	11	×	00	9	27	œ	×	7	×	ო	0	9	17	9	9	105	99	1.9
SHEPARD	25	ø	ß	Ŋ	91	9	30	17	7	10	×	σ	7	9	25	77	11	159	62	5.6
BROWN	56	K	6	10	00	6	28	97	ß	10	×	7	0	10	56	15	15	171	61	2.8
MCORE	27	K	80	×	×	9	25	70	ო	×	×	9	4	7	18	07	80	105	54	1.9
PODOLL	28	A	8	m	σ	œ	53	18	×	×	×	×	×	×	×	×	×	75	27	2.8
WOMACK	53	Д	4	9	70	2	21	12	m	က	7	×	12	12	31	19	12	152	62	2.5
OSTRANDER	30	~	80	8	9	77	31	9	ო	9	×	80	12	2	21	12	01	158	62	2.5
CULLES	31	~	9	7	0	×	22	16	ø	8	×	9	σ	ß	56	14	œ	132	61	2.2
LONG	32	Д	×	9	æ	က	19	6	ω	٣	2	×	ω	7	31	13	12	132	29	2.2
DAVIDSON	36	В								!								ļ	,	
	ğ	TOTAL	101	92 105	105	95	397	188	65	87	27	69]	126 1	107	365 1	183	154	2161		
CRITERION N	ERIO	z	42	36	42	42	157	72	39	39	12	30	42	42]	145	70	70	•	883	
	2	MEAN	2.4	2.4	2.5	2.3	2.5	2.6	1.7 2	7	2.3 2	2.3 3	3.0 2	.5 2	.5 2	9.	2.2			2.447
				ŀ																

Completion Tasks -- Food Items Small Quantity Cooking and Baking

	FOOD ITEM		IC	I GR	OUP		ratings	S	ELF-	PACE	G GR	OUP
	FOOD ITEM	0	1	2	3	4	 	0	1	2	3	4
1	Potato Salad Waldorf Salad	0	2	12	2	0		0	4	7	3	0
2	Vegetable Soup Mulligatawny Soup	0	5	7	3	0		0	2	9	2	o
3	Baked Macaroni and Cheese Chicken Fried Steak	0	4	8	2	0		0	2	7	5	0
4	French Fried Onion Rings Cauliflower Au Gratin	0	3	6	3	0		0	4	7	2	1
5	Baking Powder Biscuits	0	7	6	2	0		0	7	6	0	0
6	Plain Muffins	0	4	6	3	0		0	4	6	3	0
7	French Toast	0	2	8	1	0		0	1	3	0	0
8	Plain Omelet	0	0	2	2	0		0	1	7	2	O
9	Chocolate Cake	0	1	6	6	2		1	1	2	5	5
.0	Butter Cream Frosting	.0	0	4	7	3		0	0	9	4	1
	TOTAL	0	28	65	31	5		1	26	63	26	7
	PERCENT OF TOTAL	0.0	21.7	50.4	24.0	3.9		9.8	21.1	51.2	21.1	5.7

KEY TO RATING SCORES

- 0 Not present (not done).
- 1 Present (done) but not minimally acceptable.
- 2 Present (done) but only minimally acceptable (MALP).
- 3 Present (done) above MALP:
- 4 Present (done) at desired level for given conditions (DLP).

Completion Tasks -- Food Items Small Quantity Cooking and Baking

antenna.		I	CI G	ROUP		RATINGS	s	ELF	-PAC	ED GF	SOUP
CRITERION	0	1	2	3	4		0	1	2	3	4
CRITERION 1Taste/Flavor	0	14	42	60	14		1	13	47	50	12
CRITERION 2Appearance	0	21	60	34	15		1	23	52	33	14
CRITERION 3Texture/Consistancy	0	27	47	47	9		1	22	47	39	14
TOTALS	0	62	149	141	38		3	58	146	122	40
PERCENT OF TOTAL	0.0	16.0	38.2	36.2	9.7		0.8	15.7	39.6	33.1	10.8

STUDENT ACHIEVEMENT

Completion Tasks -- Food Items

(Based on ratings average of all criteria for each item prepared.)

ICI GROUP
(Based on 130 items prepared)

SELF-PACED GROUP
(Based on 123 items prepared)

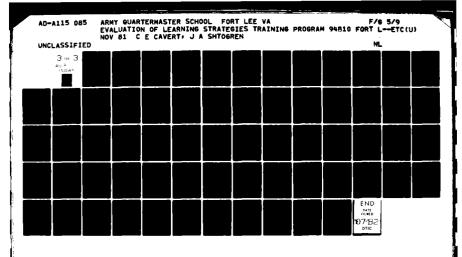
5 (3.9%) prepared at DLP

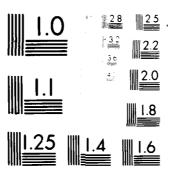
7 (5.7%) prepared at DLP

96 (74.4%) prepared at or above MALP
28 (21.7%) prepared below MALP (nogo)
27 (22.0%) prepared below MALP (nogo)

KEY TO RATING SCORES

- 0 Not present (not done).
- 1 Present (done) but not minimally acceptable.
- 2 Present (done) but only minimally acceptable (MALP).
- 3 Present (done) above MALP.
- 4 Present (done) at desired level for given conditions (DLP).





MICROC : RESOLUTION TEST CHART

MATERIA - FORMICARI - DATA

 $v_{i} = v_{i} + v_{i}$

Procedures Small Quantity Cooking and Baking

		IC	I GR	OUP		RATINGS	S	ELF-	-PACE	D GE	OUF
CRITERION	0	1	2	3	4		0	1	2	3	4
CRITERION 1Washed hands.	1	1	0	6	18		0	2	1	2	15
CRITERION 2Read complete recipe.	٥	4	7	5	16		0	2	10	11	E
CRITERION 3Checked equip- ment to be used.	2	1	3	13	12		0	0	11	13	5
CRITERION 4Assembled all need utensils.	0	1	4	18	9		0	1	11	12	4
CRITERION 5Assembled all needed ingredients.	0	1	8	9	14		0	2	8	9	9
CRITERION 6Followed the recipe procedures.	1	3	11	9	6		1	7	10	5	5
CRITERION 7Used proper sanitation and safety proced.	1	4	12	11	4		0	4	17	8	C
CRITERION 8Prepared food item without waste.	0	6	7	11	8		0	2	10	10	5
CRITERION 9Performed each cooking skill properly.	1	5	13	8	4		0	4	15	6	2
CRITERION 10Used "clean as yourgo" procedures.	1	8	7	13	1		1	7	14	7	C
CRITERION 11Cleaned self/ utensils/work area after completion of task.	0	7	7	11	6		0	7	7	10	3
TOTALS	7	41	79	114	98		2	38	114	93	54
PERCENT OF TOTAL	2.1	12.1	23.3	33.6	28.9		9.0	12.6	37.8	30.8	17.9

STUDENT ACHIEVENENT

Procedures

(Based on ratings average of all criteria for each student observation.)

ICI GROUP	EELF-PACED GROUP
(Based on 32 student observations)	(Based on 29 student observations)
0 (0.0%) performed at DLP	0 (0.0%) performed at DLP
30 (93.8%) performed at or above MALP	26 (89.7%) performed at or above MALP
2 (6.2%) performed below MALP (nogo)	3 (10.3%) performed below MALP (nogo)

Confidence/Attitude Indicators Small Quantity Cooking and Baking

		IC	I G	OUP		RATINGS	S	ELP-	PACE	D GF	OUP
CRITERION	0	1	2	3	4	·	0	1	2	3	4
CRITERION 1Proceeded with the task without false starts or trial/error activity.	1	2	6	11	12		0	2	9	15	3
CRITERION 2Attended to own actions and did not look to others for help or guidance.	0	4	6	13	9		0	4	8	16	1
CRITERION 3Stayed focused on the task and did not create or participate in irrelevant conversation or activity.		2	4	14	10		0	4	8	12	5
CRITERION 4When difficulties arose, remained cool under fire and took actions to overcome them.	2	1	2	14	10		0	1	8	15	4
CRITERION 5Showed concern for quality by checking results of actions as he/she progressed through the preparation tasks.	1	1	12	8	9		0	4	10	8	5
TOTALS	. 5	10	30	60	50		0	15	43	66	18
PERCENT OF TOTAL	3.2	6.5	19.4	38.7	32,3		0.0	10.6	30.3	46.5	12.7

STUDENT ACHIEVEMENT

Confidence/Attitude Indicatas

(Based on ratings average of all criteria for each student observation.)

ICI GROUP (Based on 32 student observations)	SELF-PACED GROUP (Based on 29 student observations)
3 (9.4%) performed at DLP 26 (81.3%) performed at or above MALP 3 (9.4%) performed below MALP (nogo)	0 (0.0%) performed at DLP 26 (89.7%) performed at or above MALP 3 (10.3%) performed below MALP (nogo

KEY TO RATING SCORES

- 0 Did NOT do.
- 1 Did but NOT minimally acceptable.
- 2 Did at minimum acceptable level of performance (NALP)
- 3 Did above MALP but not to desired level performance.
- 4 Did at DLP for given conditions.

Cooking Skills

		IC	I GR	DUP		RATINGS	s	ELF-	PACEI	GR	
CRITERION	0	1	2	3	4		0	1	2	3	4
CRITERION 1Finely shredded fresh cabbage.	0	3	7	3	1		1	1	5	6	1
CRITERION 2Diced fresh sweet pepper (1/2 inch).	0	3	4	7	0		0	3	8	3	(
CRITERION 3Sliced fresh pared cucumber (1/8 inch).	1	2	3	7	1		0	4	2	6	2
CRITERION 4 Cutting tomato wedges (8).	0	1	3	7	3		0	3	8	1	:
CRITERION 5Making a brown roux.	0	4	5	4	1		1	3	5	4	
TOTAL	1	13	22	28	6		2	14	28	20	•
PERCENT OF TOTAL	1.4	18.6	31.4	40.0	8.6		2.9	20.0	40.0	28.6	•

STUDENT ACHIEVEMENT

Cooking Skills

(Based on ratings average of all criteria for each student observation.)

ICI GROUP	SELF-PACED GROUP
(Based on 14 student observations)	(Based on 14 student observations)
0 (0.0%) performed at DLP	0 (0.0%) performed at DLP
10 (71.4%) performed at or above MALP	9 (64.3%) performed at or above MALP
4 (28.6%) performed below MALP (nogo)	5 (35.7%) performed below MALP (nogo)

KEY TO RATING SCORES

- 0 Not present (not done).
- 1 Present (done) but not minimally acceptable
- 2 Present (done) but only minimally acceptable (MALP).
- 3 Present (done) above MALP.
- 4 Present (done) at desired level for given conditions (DLP).

FREQUENCY OF RAW SCORES

Recipe Conversion

NUMBER	CORRECT	CI	GROUP	SELF-PACED	GROUP
	0		2	2	
	1		1	2	
	2		0	ī	
	3		1	0	
	4		1	2	
	5		2	2	
	7		2	1	
	8		2	1	
	9		1	ì	
]	.0		ō	ō	
	1		2	Ō	
	12		0	0	
	.3		0	0	
	.4		0	0	
	.5		0	0	
	.6 7		0	1	
	.7		0	0	
	.8 .9		0	0	

STUDENT ACHIEVEMENT

Recipe Conversion (Based on number of items correct.)

ICI GROUP (Based on 16 students tested)	SELF-PACED GROUP (Based on 14 students tested)
4 (25.0%) got 0- 3 answers correct	5 (35.7%) got 0 - 3 answers correct
7 (43.8%) got 4- 7 answers correct	
5 (31.3%) got 8-1% answers correct	2 (14.3%) got 8 -11 answers correct
0 (0.0%) got 12-15 answers correct	0 (0.0%) got 1215 answers correct
0 (0.0%) got 15-19 answers correct	1 (7.1%) got 1619 answers correct

Garrison Equipment (Based on average ratings for each equipment item.)

		IC	GR	OUP		ratings	SI	ELF-	PACEI	GR	
EQUIPMENT ITEM	0	1	2	3	4		0	1	2	3	4
Milk Dispenser	0	4	0	0	0		1	1	1	0	0
Hobart Mixer	0	0	1	3	0		0	0	1	1	0
Coffee Urn	0	0	2	2	0		1	3	1	0	0
Meat Slicer	0	0	3	2	0		0	1	1	1	0
Deep Fat Fryer	. 1	1	0	0	0		1	1	0	0	0
Convection Oven	0	1	2	2	0	,	1	2	0	0	0
Ice Cream Machine	0	0	0	3	0		1	1	0	0	0
Gas Griddle	0	0	2	1	0		0	1	2	0	0

TOTAL

PERCENT OF TOTAL

Garrison Equipment (Based on individual ratings for each equipment item.)

		IC	I GF	OUP		ratings	S	ELF-	PACE	D GR	OUP
EQUIPMENT ITEM	0	1	2	3	4		0	1	2	3	4
Milk Dispenser	3	21	37	0	0		12	5	16	11	1
Hobart Mixer	4	3	6	18	28		2	1	2	9	16
Coffee Urn	0	0	24	31	6		16	21	32	6	0
Meat Slicer	3	5	13	24	29		1	5	20	14	5
Deep Fat Fryer	16	6	6	0	0		6	18	6	0	0
Convection Oven	2	5	32	26	11		11	14	20	0	0
Ice Cream Machine	0	3	7	13	21		7	13	10	0	0
Gas Griddle	0	2	16	15	11		0	3	32	10	0

TOTAL

PERCENT OF TOTAL

STUDENT ACHIEVEMENT

(Based on ratings average of all criteria for each student observation.)

ICI GROUP

(Based on 30 student observations)

SELF-PACED GROUP (Based on 23 student observations)

0 (0.0%) performed at DLP

0 (0.0%) performed at DLP.

23 (76.7%) performed at or above MALP 7 (23.3%) performed below MALP (nogo).

8 (34.8%) performed at or above MALP 15 (65.2%) performed below MALP (nogo).

FREQUENCY OF RATING SCORES Garrison Equipment

CRITERION		IC	I GI	SOUP		ratings	S	ELF-	PACE	D GR	OUP
CRITERION	0	1	2	3	4		٥	1	2	3	4
RITERION 1Checked equipment effore starting to operate it.	1	3	7	11	8		1	8	10	3	1
RITERION 2Explained purpose for checking.	1	1	10	10	8		2	4	11	6	0
RITERION 3Observed allasafety orecautions before operating.	1	3	7	10	9		5	4	10	3	1
RITERION 4Explained importance of safety precautions	1	0	8	13	8		3	2	13	4	1
RITERION 5Took the proper actions to start the equipment.	3	4	6	9	8		4	8	5	2	4
RITERION 6Took the proper actions to operate the equipment.	3	3	7	9	8		5	7	5	3	3
RITERION 7Explained starting and operating procedures.	3	2	11	5	8		5	8	5	4	1
RITERION 8Took the proper actions to stop the operation.	1	4	9	7	9		3	5	8	5	2
RITERION 9Explained procedure for stopping the operation.	1	2	11	10	6		3	4	11	2	3
CRITERION 10Took proper actions to disassemble for cleaning.	4	2	9	9	6		5	5	8	4	1
CRITERION 11Explained dis- assembling procedure.	1	1	13	8	7		4	5	9	4	1
RITERION 12Took proper actions clean equipment.	4	8	7	4	7		3	7	10	2	1
RITERION 13Explained clean- ng procedure.	2	8	7	10	3		3	6	9	3	1
CRITERION 14Took proper actions to assemble equipment.	1	2	14	7	6		4	3	13	1	2
CRITERION 15Explained assem- bling procedure.	1	2	15	5	5		4	4	4	4	0
TOTALS	28	45	141	127	106		54	80	138	50	22
PERCENT OF TOTAL	6.3	10.1	31.8	28.6	23.9		5.7	23.3	10.1	14.5	4.9

KEY TO RATING SCORES

^{0 -} Did not do.

^{1 -} Did but not minimally acceptable.

^{2 -} Did at minimum acceptable level of performance (MALP).

^{3 -} Did above MALP but not to desired level (DLP).

^{4 -} Did at DLP for given conditions.

ICI GROUP
15 JULY
COMPLETION TASK RATINGS
Small Quantity Cooking

STUDENT NUMBER -	-	7	е п	~	&	6	91	a a	77	77	16	17 1	18 2	22 23	1	33 3	34 3	35 TC	TOTAL	2	MEAN
LAB ASSIGNENT -	•	4	A	Д	~	д	Ø	~	Д	æ	A	~	4	K	V	K	Д	. 4	- 1		1
Criterion 1	~		m	~		7	е	3	m	2	m	M	3	٣	m	4	2	8	45	91	2.8
8	7		~	-		~	ო	~	8	7	8	m	7	m	~	•	~	-	35	91	2.5
E	٣		9	٦		7	7	E	m	-	7	-	7	2	_		~	-	88	9	2.4
SALAD TOTAL	8	1	8	4		٥	8	8	80	7	7	6	7	8	8 11		9	5 11	118	48	2.5
Criterion 1	-		7	~			7	~	7	7	7	6	9	ю	ю	7	3	3	35	15	2.3
70	8		7	8			m	m	-	-	н	4	7	<u>س</u>	8	. ~	m	m	34	51	2.3
e	н		7	٦	ĺ	,	7	~	7	-	1	m	7	9			2		29	뙤	1.9
SOUP TOTAL	4		9	2			7	7	5	4	4	2	7	6	9	7	8	6	86	5	2.2
Criterion 1	-	7	77	m		-	7	m	~	-	m	-	-		e .		m	8	33	15	2.2
7	4	~	ч	8		-	~	~	8	7	m	8	-		m		7	2	32	15	2.1
m	m	2	1	m		-	7	е	7	е	9	-	-		~		8	e .	33	21	2.2
ESTER TOTAL	2	9	2	æ		6	9	ω	9	٥	6	4	6		8		80	8	86	2	2.1
Criterion 1	~		7	~		7	~		6	7	е е			m	6		7	7	28	я	2.3
7	7		ન	~		7	~		m	~	m			N	m		4	7	27	12	2.3
e	7		7	7		7	4		7	7	6	}		7			m	7	24	77	2.0
VECETABLE TOTAL	٥		4	4		9	2			9	6			7	6		6	9	79	38	2.2
TOTAL	28	٥	23	72		22	56	23	27	23	53	23	77	24 31	ł	18 3	31 2	28 39	393	1	l
CRITERION N	77	m	12	12		0	12	o	77	12	77	6	6	6	12	1 9	12 1	77	-	174	
MEAN	2.3	2.3 2.0	1.9	1.8		1.7	2.2	2.6	2.3	1.9	2.4	2.6	1.9	2.7 2	2.6 3	3.0 2	2.6 2	2.3			2.258

SELF-PACED GROUP
15 JULY
COMPLETION TASK RATINGS
Small Quantity Cooking

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ICI GROUP
15 JULY
PROCEDURES RATINGS
Small Quantity Cooking

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SELF-PACED GROUP
15 JULY
PROCEDURES RATINGS
Small Quantity Cooking

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ICI GROUP 15 JULY

CONFIDENCE/ATTITUDE INDICATOR RATINGS
Small Quantity Cooking

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SELF-PACED GROUP

CONFIDENCE/ATTITUDE INDICATOR RATINGS Small Quantity Cooking

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ICI GROUP 15 JULY COMPLETION TASK RATINGS Small Quantity Baking

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SELF-PACED GROUP
15 JULY

COMPLETION TASK RATINGS Small Quantity Baking

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ICI GROUP 15 JULY PROCEDURES RATINGS Small Quantity Baking

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ľ			4	7		4	4	~	m	4	4	8	4	m	6	4	4	7	6	z	3.3
9			×	7		ო	m	m	~	~	m	~	~	m	6	7	-	~	35	14	2.5
			7	~		m	-	-	ო	4	٣	~	7	m	m	က	7	ю	8	15	2.4
60			m	-		m	m	4	m	m	7	m	8	4	4	4	-	4	4	23	5.9
•			H	7		m	~	<u>,-</u>	•	4	m	~	~	m	4	×	4	8	32	77	2.5
10			0	7		~	-	~	×	e	m	7	m	~	~	7	-	~	3 6	14	1.9
n	1		4	7		6	1	2	×	7	3	7	m	•	6	4	7	4	35	7	2.5
																					1
TOTAL			25	27		34	8	23	29	37	98	25	27	8	36	27	53	53	450		
CRITERION N			10	11		11	11	11	O	ជ	11	11	9	7	11	10	11	11		160	
MEAN			2.5	2.5		3.1	2.7	2.1	3.2	3.4	3.3	2.3	2.7	3.5	3.5	2.7	2.6	2.6			2.813

•

SELF-PACED GROUP
15 JULY
PROCEDURES RATINGS
Small Quantity Baking

STUDENT NUMBER -	4	2	9	13 15	5 19	1	20 21	1 24	1 25	56	27	28	59	8	31	32	36	TOTAL	z	MEAN
LAB ASSIGNMENT	В	¥	~		A	8	A	B 1	A B	*	A	æ	æ,	~	*	Ø	æ			
Criterion 1		4		4	S4	•	×	2	4	×	×		4	×	က	ю		32	6	3.6
7		_		4	~	₹	m	.,	4	(*)	7		4	ო	٣	m		45	14	3.0
m		7		4	m	•	m	., E	4		71		M	7	m	m		41	14	2.9
4		7		m	М	m	m	4	4	N	7		×	~	7	m		35	13	2.7
ĸ		7		4	.	•	e.	4	4	~	-		×	7	m	4		38	13	5.9
9		m		_	~	_	m	•	7		0		4	7	-	m		30	14	2.1
7		7		-	~	~	m		7	~	~		m	~	~	7		53	14	2.1
99		m		m	~	~	~	4	×		7		4	7	7	4		33	13	2.5
•		7		 H	~	~	4	., Б	7	m 	-		7	7	7	m		58	13	2.2
10		7		•	~	_	m	., w	7		m		m	7	~	~		58	14	2.0
11		1		7	3	1	6	3	x 1		3		4	7	က	7		53	13	2.2
TOTAL	7	23	7	26 25	5 27		30 39	9 17	7 25	26	18		31	21	5 6	31		365		
CRITERION N	~	-	-	01 11	11 0	11 11	11 11	1 9	20	10	97		6	10	7	7		-	145	
MEAN	71	.3	(1	2.4 2	2.5 2	2.5 2	2.7 3	3.5 2.1	1 2.5	5 2.6	6 1.8	60	3.4	2.1	2.4	2.8				2,517

ICI GROUP 15 JULY CONFIDENCE/ATTITUDE INDICATOR RATINGS

Small Quantity Baking

												1									l
STUDENT NUMBER =	-	7	м	7	φ	6	2		12 1	14 1	16 1	17 1	18 2	22 2	23 3	33 3	34 3	32	TOTAL	z	MEAN
LAB ASSIGNMENT =	m	~	æ	ø	«	Ø	m	Æ	æ	α.	Ø	A	A		K	A	m l	4		Ì	}
Criterion 1		} .	9	m		-	m	77	-	4	4	2	м	4	4	7	4	m	4	15	3.1
2				ო		4		-	~	4	4	m	m	е	m	۳	m	m	43	15	2.9
. "			۱ ۲	m		m	~	m	m	'n	m	m	m	4	4	4	m	m	45	15	3.0
n 4			0	4		m	4	~	~	m	ო	m	m	4	•	m	4	7	43	15	2.9
. rv			m	8		~	4	· ~	m	m	7	7	4	~	7	m	m	8	39	51	5.6
																					} }
TOTAL			9	15]	19	7	6	Ħ	17	16]	13	16	17 1	17	15 1	17	13	216		
CRITERION N			Ŋ	ហ		īŪ	S	S	עע	ហ	ស	S.	S	Ŋ	S	2	Ω.	Ŋ		75	
MEAN			2.0	3.0	•••	3.2	7.8	6.1	2.2	3.4	3.2	2.6	3.2	3.4	3.4	3.0	3.4	2.6			2.880
																		i			

SELF-PACED GROUP
15 JULY

CONFIDENCE/ATTITUDE INDICATOR RATINGS Small Quantity Baking

																l					
STITLEST NUMBER =	4	Ŋ	9	13	15	19	20	21	24	25	5 6	27	28	53	ဓ	31	32	36	TOTAL	Z	MEAN
LAB ASSIGNMENT =	Д	æ	K	æ	4	Д	K	ø	«	A	≪ .	4	æ	ø,	4	~	m	m			
		"		1	m	m	m	6	-	m	m	7		4	8	8	8		36	14	5.6
Criterion 1		۰ ۳		۰ -		, (c)	M	ო	Н	~	m	7		4	7	m	m		35	7.	2.5
N (**)		, ,		۱ ،	ı 0	, m	m	4	-	-	ო	8		4	~	m	m		35	74	2.5
1 4		ı m		m	ო	4	ო	ო	H	4	m	7		4	m	٣	m		42	14	3.0
' IA		-		m	4	N	ო	ო	~	7	m	~		m	М	9	7		35	7	2.5
TOTAL		12		≓	7	25	15	91	9	11	15	97		19	12	14	13		183		
CRITERION N		ហ		S	เง	10	ß	10	ĸ	ĸ	ιO	2		'n	ស	ß	τυ			2	
MEAN		2.4		2.2	2.8	3.0	3.0	3.2	1.2	2.2	3.0	2.0		3.6	2.2	2.8	2.6	Ì		1	2.614
												ĺ									

ICI GROUP 15 JULY

COOKING SKILLS RATINGS

STUDENT NUMBER =	-	74	m	-	60	9	1 9	=	12 14	16	17	87	22	23	33	34	35	TOTAL	z	MEAN
LAB ASSIGNMENT =	ø	<	Ø	m	4	m m	Д	4	Д	B	4	«	•	۸.	A	æ	~			1
Criterion 1			7	7			7	8		8	7	1	*	7		-	7	30	7.	2.1
~			m			~	m		.` ~1	~	m	-4	m	m		7	m,	32	7	2.3
m			m	~		0	m	7	m	~	~	m	4	٣		8	m	33	7	2.4
4			4	ط		m	m	4	8	~	4	7	m	m		m	м	4	14	5.9
· vo			-	~1		~	6	8	 H	~	ъ.	7	♥ .	. 73		3	7	30	7	2.1
TOTAL			12	٥	-	2	14 1	22	8	9 15	17	6	81	13		11	12	165		!
CRITERION N			ß	5		ĸ	S	'n	10		N.	S	S	ហ		S	Ŋ	;	2	
MCDA			2.6	1.2	8	2.0.2	2.8 2	2.6 1	1.6 1	1.8 3.	3.0 2.8	8 1.8	3.6	5 2.6	_	2.2	2.4			2.357

SELF-PACED GROUP

COOKING SKILLS RATINGS

STITUTENT NUMBER =	4	2	٥	ដ	2	19	20	21	24	25	56	27	78	53	8	 E	32 3	36	TOTAL	Z	MEAN
LAB ASSIGNMENT =	М	æ	4	Д	4	ø	a.	Ø	4	Д	~	4	m	Д	4	4	m	a		}	
Criterion 1		m		4	m	7	٦,	7	7	m	٣	7		m	0	8	æ		33	14	2.4
2		~		ო	က	-	~	~	7	-	ო	-		7	7	7	7		88	74	2.0
, m		~		4	4	7	ო	-	-	m	ო	-		m	m	-	က		34	74	2.4
•		7		4	4	7	7	н	H	7	м	7		~	7	7	7		30	74	2.1
ហ		4		~	က	-	~	7	0	C)	ю	7		ო	m	7	2		29	14	2.1
												{						}			
TOTAL		12		97	17	8	2	8	9	#	15	∞		12	07	ω	12		154		
CRITERION N		เก		2	v	S	S	5	2	5	40	3		2	10	ın	ĸ			20	
MEAN		2.6		3.2	3.4	1.8	5.0	1.8	1.2	2.2	0.0	1.6		2.4	2.0	1.6	2.4				2.200

ICI GROUP
15 JULY
COMPLETION TASK RATINGS
Garrison Equipment

Student	-	7	۳	7	80	.6	07	11	12	7	91	17	18	22	23	33	*	35
Equipment	64 Bu	<	ပ	N B		ပ	H D	D H	A E	DH	er er	CF	a	۵	E E	ဗ	F B	~
CRITERION CRITERION		***************************************		44.00000000000000000000000000000000000	*************	**************************************	<pre>Uuuuuaaauuouauuu uuuuaaaaaaaaaaa</pre>	<pre>u 4 4 w 4 w 4 w 0 u u u u u u u u u u u u u u u u u u u</pre>						44141444114114141414141414141414141414	4 M M 4 4 4 4 4 M M 4 4 4 4 4 4 4 4 4 4	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK
Total	9T \$E	22	9£	S P LT	0	LV LV	95 6E	35	₽ ₹	52 8£	38 4 2	37 42	ο 22	0 6¥	9S PE	PE	23	0 3 0
Yes	3°3	8.1	2.4 3.3	0°E		3°7	3.7	2.9 2.5	3.1 0.0	3.5	3.0 2.6	3°0	9.2	ε.ε	2.3	2.3 3.0	3.5 0.5	۲.۲
Percent of Possible	6.82 0.05	0.25	6.68 83.3	28.3 75.0		6.87 6.87	0.23 E.EQ	71.7 53.3	0.0 0.0	ε.88 ε.εə	0.27	0.27 0.2£	۲٬19	7.18	€.68 €.€6	5.87	88.3 0.27	€.84
TOTAL HEAN PERCENT	53 1.8 44.2	27 1.8 45.0	89 3.0 74.2	62 2.1 71.7	·	94 3.4 78.3	95 3.2 79.2	75 2.5 62.5	24 0.8 20.0	91 3.0 75.8	84 2.8 70.0	66 2.2 55.0	37 2.6 61.7	49 3.3 81.7	91 3.0 75.8	81 2.7 67.5	98 3.3 81.7	26 1.7 48.3

ENT KEY	E = Deep Pat Fryer Total 1142 F = Convection Oven Mean 2.5 G = Ice Cream Machine Percent of Possible 63.1 H = Gas Griddle
EQUIPMENT KEY	E = Deep Fat Frye F = Convection Ov G = Ice Cream Mac H = Gas Griddle
ROUTP	A = Milk Dispenser B = Hobert Mixer C = Coffee Urn D = Mest Slicer

SELF-PACED GROUP
15 JULY

COMPLETION TASK RATINGS Garrison Equipment

Student Equipment	•	2 mg CF	•	13 A H	15 D H	19 F G	№ 50	22 C C	2 C	C 25	26 F B	20	28	0 0 0 0	06 08 08	31 A H	32 D E	8
Criterion Criterion and and and and and and and and and an	***********	HH00000000HH00 H00044MM44MMX4M	**********				××××××××××××××××××××××××××××××××××××××	************	*****************		4 M 4 4 M 4 4 4 4 4 M 4 4 4 4 M 4 M 4 4 4 4 M 4 4 4 4 M 4 4 4 4 M 4 4 4 4 M 4 4 4 M 4	*****************	*************				22002244444444444444444444444444444444	**********
Total Mean Mean	0	A E.O T.A	0	8.8 1.9 29 72 8.1 0.2	7E 2.2 7.1.	5.0 1.4 21. 5.0 1.4 21.	5.0 0.2 0	0 29 29 0	0 02 E'T E'S	0 2.2 2.4 0	62 6.1 E.8i 62 7.5 E.Ei	ο τ.ο τ.	0	15 1.2 7.16 02 5.1 5.50	32 7.1 E.E.	\$5.0 2.2 33	25 E.S E.86 91 E.1 7.16	0
TOTAL		1.6 37.5		56 1.9 46.7			3 0.2 5.0	29 1.9 48.3	20 1.3 35.3	22 1.5 36.7		0.1			- - • •		1 4 . 40	
		A MAIL C = ROD D = ROD	EQUIPI Milk Dispenser Hobart Mixer Coffee Urn Meat Slicer	EQUIPM enser xer n	MENT KEY E E E G E E	Deep Conv Gas	Deep Fat Fryer Convection Oven Ice Cream Machine Gas Griddle	yer Oven achine				17128	PACEI Total Mean Percer	GROUI	SELF-PACED GROUP SUMMARY Total Mean Percent of Possible		FATINGS 594 1.6 43.1	

		Cas Griddle	í	•	1	27	37	ŧ	•	•	ł	•		1	3	•	3	1	•	•	3	3	2.1	8	71.1
	i i	Ice Creem	•	•	•	•	•	13	*	•	•	•		•	•	2	•	33	•	•	8	45	1.5	180	36.7
	Garrison Equipment Composite Ratings on Equipment	CONABCETON	•	4	•	•	ŧ	77	•	•	•	•	5	ı	•	•	1	1	ı	٠	3	45	1.2	180	30.0
CROUS	rationer	Doep Fat	•	f	ı	ŧ	•	•	•	•			1	•	1	ı	7	•	61	•	8	8	7.0	8	33.3
SELP-PACED GROUP 15 JULY	Garrison Equipment site Ratings on Eq	Heat Slicer	•	•	•	ı	46	1	•	•	•	•	•	•	1	. 1	5 6	•	32	•	167	45	2.4	180	59.4
SEL	Garri posite	coffee uxn	•	•	ı	1	•	1	1	53	20	22	•	~	•	31	•	•	•	•	103	75	1.4	300	34.3
	Comi	Mixing Machine	•	7		•			•	•	•	•	8	•	•	•	1	•	ı	•	8	8	3.2	120	80.0
		Dyebenser Kijk	•	•	,	53	•	1	m	•	•	1	1	١.	•	1	1	42	•	•	74	45	1.6	180	41.1
		Traduts	•	'n	9	13	15	19	50	21	24	52	3 6	27	58	53	30	31	35	x	TOTAL	CRITERION	MEAN	POSSIBLE	PERCENT OF POSSIBLE
	·	Ges Griddle	,	•	,	ı	1	1	2 6	32	1	38	1	ı	1	•	1	•	•	•	126	45	2.8	180	70.0
	ment	Machine Ice Cream		1	20	1	1	47	ı	1	•	•	•	1	٠	ı	ı	47	•	•	144	\$	1.2	180	80.0
	Equipment ngs on Equipment	Convection	25	'	,	١	1	•	•	1	ı	ı	45	71		1	32	ı	53	•	189	75	2.5	90	63.0
GROUP	Equipment Ings on Equ	Doop Fat	α. -	1	•	•	ı	•	1	•	•	•	•	•	ı		•	•	1	•	18	9	9.0	120	15.0
101	Garrison Composite Rati	Mest Slicer	,	ļ	J	1	ı	•	39	43		53	1	1	37	4	•	*	•	•	255	8	2.8	360	70.8
•	Gaz mposit	Cottee Urn	•	•	35	} '	•	47	•	•	•	•	ı	45	•	•	1	•	1	•	128	\$	2.8	180	71.1
	8	Mixing Mixing	,			45	ŧ	•	•	•	ŧ	ı	33	•	•	•	%	,	\$	•	185	8	3.1	2	17.11
		DFSDeuses NTTF	,	27	۱ ۱	17	•	ı	ı	•	75	•	;	•	•	•	١	•	•	26	97	3	1.6	9	40.4
		THEOUTS	-	4 6	• ~	, ,	9	6	9	1	17	7	16	11	18	77	23	33	Ħ	35	TOTAL	CRITERION	- 3	POSSIBLE	FORSTRIE

ICI GROUP 15 JULY

Garrison Equipment Composite Ratings on Criteria

SELF-PACED GROUP 15 JULY

Garrison Equipment Composite Ratings on Criteria

l musums	İ						7	~	-	_	_	-	· ~	7	7	(4)	(4)	m 1	YES	CRITERION N	MEAN	PERCENT OF POSSIBLE
STUDENT Check Equipment						9 16										33 14			021		2.8	
Safety Precautions	7	4	12	97	×	16	1	11	m	14	15	12	4	7	12	13	13	7	168	8	2.8	70.0
Start-Operate Equipment	ω	S	17	12	×	18	24	19	4	21	1 6	00	0	7	18	13	18	4	225	8	2.5	62.5
Stop Equipment	9	4	21	12	×	10	12	13	4	13	12	œ	Φ	7	7	20	13	4	157	9	2.6	65.4
Disassable fromqinpa	12	4	14	.	×	14	07	9	4	2	o	20	m	'n	13	12	14	4	150	8	2.5	62.5
Clean Equipment	4	7	ά	4	×	9	15	7	~	7	2	Φ	7	7	14	7	=	7	125	9	2.1	52.1
Reassemble Equipment	80	4	12	æ	×	14	12	Φ	m	ឧ	6	ឧ	ო	4	12	12	14	4	147	29	2.5	61.3
TNSCOTS	4	'n	9	13	15	19	50	21	24	25	26	27	28	29	90	31	32	98	TOTAL	CRITERION N	MEAN	PENCENT OF POSSIBLE
Check Equipment	×	S	×	æ	2	7	0	4	m	7	#	-	×	ឧ	S	11	∞	×	85	46	1.8	46.2
Safety Precautions	×	7	×	7	ខ្ម	7	~	4	m	4	12	0	×	ឧ	m	9	œ	×	8	46	1.8	44.0
Start-Operate Equipment	×	1	×	o	19	m	0	m	-	ហ	17	0	×	9	0	16	13	×	112	4	2.4	54.1
Stop Equipment	×	7	×	Ø	14	7	0	4	4	7	7	0	×	7	9	01	7	×	88	46	1.9	47.8
Disassemble Equipment	×	7	×	æ	77	71	0	9	~	m	7	0	×	9	9	œ	S	×	92	46	1.7	41.3
Clean Equipment	×	S	×	7	6	•	7	4	4	~	2	0	×	9	7	ន	ഗ	×	7	45	1.6	40.2
Reassemble Equipment	×	7	×	æ	O	~	0	4	M	4	7	0	×	9	9	2	S	×	78	9	1.7	42.4

RECIPE CONVERSION SCORES

ICI GROUP Cycle 1

SELF-PACED GROUP
Cycle 1

		Student	Items Correct	Percent	Student	Items Correct	Percent
		1	1	5.3	4	_	_
		2	0	0.0	5	5	26.3
		3	. 7	36.8	6	_	-
		7	8	42.1	13	7	36.8
		8	~	_	15	6	31.6
		9	4	21.1	19	1	5.3
		10	5	26.3	20	1	5.3
		11	9	47.4	21	8	42.1
		12	-	-	24	2	10.5
		14	8	42.1	25	4	21.1
		16	6	31.6	26	9	47.4
		17	0	0.0	27	4	21.1
		18	6	31.6	28	-	-
		22	11	57.9	. 29	0	0.0
	•	23	3	15.8	30	16	84.2
		33	7	36.8	31	5	26.3
		34	11	57.9	32	0	0.0
		36	5	26.3	36	. -	- '
. S	TUDENTS	N 16			14		
GF	OUP TOTA	L	91			68	
PERCENT OF	POSSIBL	E		29.9			25.6

Maximum possible score = 19 items correct

CYCLE 1 RATINGS

Reaction Surreys

ICI GROUP 15 JULY

REACTION SURVEY Task Competencies

TASK COMPETENCY	N	ICI GR	oup L Mean	Self N	-PACED TOTAL	GROUT
. Read and follow recipe cards.	12	34	2.8	7	15	2.1
. Prepare food for proper: taste and fla			2.7	8	17	2.
consistency and text			2.6	8	15	1.9
appeara			2.6	8	15	1.9
garn			2.5	8	19	1.9
. Prepare and maintain work area.	12		2.9	8	20	2.
. Use sanitation and safety procedures.	12		2.9	8	23	2.
. Use "clean as you go" procedures.	12	_	2.8	8	19	2.
. Prepare food items without waste.	12	30	2.5	8	22	2.
. Use a knife properly to: sl	ice 12	35	2.9	8	21	2.0
sh	red 12	29	2.4	8	17	2.
C	ube 12		2.3	8	18	2.
đ	ice 12		2.8	7	16	2.
	hop 12	_	3.0	8	18	2.
mi.	nce 12	36	3.0	8,	20	2.
. Use procedures to: weigh dry ingredie	nts 12	32	2.7	8	20	2.
measure liquid ingredie	nts 12	32	2.7	8	19	2.
. Use proper procedures for: so	ups 12	33	2.8	8	19	2.
sal	ads 11	31	2,8	8	24	3.
basic sau	ces 11	28	2.5	8	15	1.
. Prepare bakery items: quick bre	ads 12	28	2.3	8	15	1.
cook	ies 12	27	2.3	8	19	2.
Cai	kes 12	32	2.7	8	20	2.
ro	lls 12	31	2,6	8	17	2.
p	ies 12	27	2.3	8	16	2.
. Prepare meat & other items by: bak	ing 12	33	2.3	7	20	2.
roast	ing 12	31	2.6	7	12	ı.
fry	ing 11	33	3.0	7	18	2.
brais	ing 11	28	2.5	7	14	2.
stewing or boil	ing 11	29	2.6	7	11	1.
. Start, operate, and maintain: mi	xer 12	34	2.8	8	23	2.
sli	cer 12	33	2.8	8	13	1.
coffee	urn 12	34	2.8	8	8	1.
milk dispens	ser 12	35	2.9	8	15	1.
o	ven 12	32	2.9	8	19	2.
deep fat fr	-	29	2.6	8	16	2.
. Explain purpose & function of: mix	xer 11	31	2.8	8	22	2.
sli		30	2.7	8	14	1.
coffee		33	3.0	8	8	1.
milk dispen		32	2.9	8	17	2.
	ven 11	27	2.5	8	16	2.
deep fat fr	-	28	2.5	8	14	1.
. Convert recipes.	11	25	2.3	7	6	0.
. Ask proper questions about preparing f		31	2.5	7	21	3.
. Ask proper questions about operating e	quip. 11	33	3.6	7	21	3.
TOT	ALS 521	1342	2.6	350	763	2.

ICI AND SELF-PACED GROUPS 15 JULY

REACTION SURVEY The Training Program

ASPECTS OF TRAINING PROGRAM		ICI GRO	UP	SELF-	PACED O	ROUP
	N	TOTAL	MEAN	N	TOTAL	MEAN
1. Before each lesson, I was told what I was going to learn and why I needed to learn it.	12	47	3.9	8	22	2.8
) 2. My instructor demonstrated each thing I was to learn.	12	46	3.8	8	17*	2.1
3. My instructor made sure I understood what to do before I actually did it.	12	46	3.8	8	26	3.3
4. I was told not only what I needed to cor rect but also what I was doing right.	12	40	3.3	8	26	3.3
5. My instructor had me learn the <u>reasons</u> for doing things in a particular way.	12	44	3.7	8	24	3.0
)6. I was asked to explain what I was learning.	12	44	3.7	8	28	3.5
)7. During class, I was encouraged to share my ideas with other students.	12	43	3.6	8	2	0.3
8. I was treated with respect by my instructor.	12	38	3.8	8	28	3.5
)9. Time was wasted doing nothing or doing things that did not help me learn.	12	10	0.8	8	8	1.0
10. My instructor took the time to help me understand without "putting me down".	12	44	3.7	8	22	2.8
11. I was able to read and understand the written material I was given	12	39	3.3	8	26	3.3
12. The instruction was too fast for me to follow what was going on.	12	9	0.8	8	20	2.5
13. The instruction was too slow and I got bored.	12	20	1.7	8	6	0.8
UNADJUSTED TOTALS	156	505	3.237	104	271	2.6
(*) ADJUSTED TOTALS	120	372	3.100	80	224	2.8

NOTES:

^(*) Statements apply only to ICI training. Ratings not counted in adjusted total.

⁽e) Ratings inverted for group totals because of the way statement is worded.

Evaluation
Learning Strategies Training Program
94Bl0
Fort Lee Virginia

DATA FROM CYCLE 2
Groups Starting Training 19 August 1981

ICI GROUP
Cycle 2--19 August
STUDENT CHARACTERISTICS
-- Personal in Nature --

STUDENT	No.	q e Z	Comp.	Age	Sex	Race	Educ. Level	OF.	Б	Aptitu 00	Aptitude Battery CO FA EL	ttery EL	Scores GM N	2 X	B	ST	သွင	ALT PAIL
m Gu Tu Garage	-	•	ā	5	B	2	12	ď	63	80	٠.				_	ĺ	63	0
NO TONT DEVIA	• •	٠,	§ 1	? ;	• :	: (3);) ;				•	_			•
ENTING	~	<	2	77	Σ	ပ	9	104	113	108	_						17	5
LIVINGSTON	m	#	2	22	E	ပ	12	1	,	ı							t	0
HANSON	4	~	B	13	¥	υ	10	104	94	104							7 01	0
SANCHEZ	S	~	S S	53	Σ	13	6	•	,	•								0
GLASS	9	4	1	18	E	13	12	16	06	100		_					103	0
DANIELS	7	<	AR	22	E	z	12	82	77(*)	81	_						85	0
LOGGINS	&	~	Z	18	E	z	ส	98	93	82		_					82	0
COLLINS	0	~	2	32	X	z	12	106	120	121	113	113	106	107	104	105		0
WADE	3 6	4	S	19	E	U	77	93	92	103							92	0
MOOLEY	24	4	¥	22	¥	z	12	82	71(*)	8	_	_					81	0
DOOM	25	æ	NG	19	×	ပ	n	66	16	26							86	0
GREGG	5 6	æ	2	2	×	ပ	ន	101	8	6	_						24	0
SOMERS	27	~	\$	13	×	Ų	77	88	77(*)	69							76	0
BUTLER	82	Ä	2	13	×	ပ	21	100	गा	103							103	0
PARRES	8	Ø	2	18	Dia.	ပ	12	81	16	95							88	0
GROUP AVERAGE			NP-2 NP-2 NG-3	21.1	¥ 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 1 2 8 0 2 8	11.3	93.5	93. 5 9 3. 1 9	3.7	94.6	84.9	96.0	9.4	96.6	88.0 9	93.8	0

(*) Indicates course prerequisite of a standard score of 90 or higher in OF or GT was not met. (-) Indicates data not available.

-- PERSONAL IN MATURE --

SELR-PACED GROUP
Cycle 2--19 August
STUDENT CHARACTERISTICS
-- Personal in Nature --

	;						sque.			Aptit	ude B	atter	800	108				ALT
STUDENT	X 0.	9	dia Co	Age	X S	Kace	Level	OF	E	8	2	13	CO FA EL GM NOM	ž	៩	ST	ည္ထ	FAIL
1000	9	a	8	12	*	1	12		79(*)	27	78	2	<u>ئ</u>	8	6	5	8	c
TTYMOT	3	9	Ş	1	•		1			•)	•	•	,	1	•	3	•
JACKSON	#	Ø	Z	77	ĵ4	Z	13		98	87	87	92	78	87	102	8	ሄ	0
SURITA	77	4	9	51	×	13	0		1	•	•	ı	1		•		ı	0
MC CURDY	13	æ	NG	20	E	ပ	11		8	126	108	86	105	102	112	114	126	0
JOMES	14	1	\$	18	E	U	12		98	75	86	97	8	106	81	107	26	0
BRICELY	15	Ø	\$	61	X	ы	0		,	1	1		1	ı	1	,	ı	0
RODRIGUEZ	17		2	18	Σ	ပ	12		84	93	8	93	86	16	16	88	85	0
KELLER	18	~	\$	2	(ha	ပ	12		86	9	105	96	8	82	102	94	93	0
DODDERER	19	~	2	21	E	ပ	12	16	8	107	104	85	85	8	79	94	83	0
ADDINGTOR	50	~	Z	19	Da,	ы	12		83(*)	87	87	77	78	77	93	8	88	0
SHEPPARD	#	~	2	53	×	z	12		8	9/	16	72	69	87	81	85	77	0
DORHRING	5 5	<	\$	19	¥	ပ	12		120	86	103	113	108	68	100	107	97	0
CORDON	23	<	\$	18	E	z	12		95	95	98	7.	ድ	85	98	80	8	0
CLOUCH	30	æ	1	18	E	ပ	10		100	87	98	66	66	8	96	96	85	•
GROUP AVERAGE	Pi Pi		RA-12 AR-0 NG-2	19.4	# £	7 7 6 2	10.1	91.3	90.9	92.0 93.1 87.7	93.1	87.7	86.9	88.7	92.9	91.1	89.3	0

(*) Indicates course prerequisite of a standard score of 90 or higher in OF or GT was not met. (-) Indicates data not available.

-- PERSONAL IN NATURE --

ICI GROUP Cycle 2--19 August

COMPOSITE RATINGS Percent of Possible Scores

		α	OKING		BJ	KING		CON	BINED		SKILLS	TOTAL
Student		Items	Procedures	Confidence	Items	Procedures	Confidence	Items	Procedures	Confidence	Cooking	Total
POS	SIBLE	= 48	44	20	60	44	20	108	88	40	20	.268
1	N.	10 20. 8	18 40.9	10 50.0	42 70.0	28 63.6	11 55.0	52 48.1	46 52.3	21 52.5	12 60.0	131 48.8
2	N *	29 60.4	25 56.8	13 65.0	35 58.3	23 52.3	12 6 0.0	64 59.3	48 54.5	25 62.5	-	137 55.2(*)
3	N •	-	-	- -	-	-	-	-	-	-	.6 30.0	6 30.0(**)
4	N *	24 50.0	24 5 4.5	12 60.0	39 65.0	38 63.6	13 65. 0	63 58.3	52 59. 1	25 62.5	-	140 56.5(*)
5	N •	33 68.6	27 61.4	12 60.0	48 80.0	28 63.6	16 80.0	81 75.0	55 62.5	28 70.0	-	164 66!1(*)
6	N •	21 43.8	23 52.3	12 60.0	22 36.7	19 43.2	11 55.0	43 39.8	42 47.7	23 57.5	10 50.0	118 44.0
7	N *	26 54.2	23 52.3	11 55.0	3 <u>5</u> 58.3	24 54.5	14 70.0	61 56.5	47 53.4	25 62.5	-	133 53.6(*)
. 8	N •	18 37.5	32 72.7	12 60.0	38 63.3	29 65.9	18 90.0	56 51.9	61 69.3	30 75.0	11 55.0	158 59.0
9	N *	26 5 4. 2	33 75.0	16 80.0	47 78.3	18 40.1	11 55.0	73 67.6	51 58.0	27 67.5	1 4 70.0	165 61.6
16	N \$	28 58.3	26 59.1	15 75.0	34 56.7	30 68.2	17 85.0	62 57.4	56 63.6	32 80.0	-	150 60.5(*)
24	N •	26 54.2	20 45. 5	13 65.0	38 63.3	34 77.3	17 85.0	64 59.3	54 61.4	30 75.0	6 30.0	154 57.5
25	N •	22 45.8	29 65.9	10 50.0	46 76.7	32 72.7	16 80.0	68 63.0	61 69.3	26 65.0	-	155 62.5(*)
26	N \$	27 58.3	18 40.9	10 50.0	36 60.0	26 59.1	14 70.0	63 58.3	44 50. 0	24 60.0	8 4 0.0	139 51.9
27	N N	29 60.4	30 68.2	15 75.0	42 70.0	35 79.5	15 .75.0	71 65.7	65 73.9	30 75.0	8 4 0.0	174 64.9
28	N •	33 68.8	31 70.5	19 9 5.0	41 68.3	25 56.8	16 60.0	74 68.5	56 63.6	35 87.5	12 60.0	177 66.0
29	N	20 41.7	25 56.8	12 60.0	43 71.7	24 54.5	13 65.0	63 58.3	49 55.7	25 62.5	7 35.0	144 53.7
tor	OP N			192 64.0		403 61.1	214 71.3		787 59.6	406 67.7	94 47.0	2245 57.270

^(*) Adjusted. Absent from duty during Cooking Skills evaluation. (**) Adjusted. Absent from duty during Small Quantity Cooking and Baking evaluation.

SELF-PACED GROUP Cycle 2--19 August

COMPOSITE RATINGS Percent of Possible Scores

			00	OKING			MIKING		CO	BINED		SKILLS	TOTAL
Student			Items	Procedures	Confidence	Items	Procedures	Confidence	Items	Procedures	Confidence	Cooking	Total
POS	SIB	LE	- 48	44	20	60	44	20	108	88	40	20	268
10	N \$		31 64.6	34 77.3	15 75.0	37 61.7	28 63.6	15 75.0	68 63.0	62 70.5	30 75.0	-	160 64.5(*)
11	N		25 52.1	19 43.2	10 50.0	36 60. 0	31 70.5	12 60.0	61 56.5	50 56.8	22 55.0	12 60.0	145 54.1
12	N		30 62.5	23 52.3	12 60.0	42 70.0	34 77.3	19 95.0	72 66.7	57 64.8	31 77.5	15 75.0	175 65.3
13	N		18 37.5	31 70.5	17 85.0	37 61.7	21 47.7	13 65.0	55 50.9	52 59.1	30 75.0	17 85.0	154 57.5
14	N •		22 45. 8	21 47.7	10 50.0	19 31.7	25 56.8	12 60.0	41 38.0	46 52.3	22 55.0	8 40.0	117 43.7
15	N L		25 52.1	36 81.8	17 85.0	35 58.3	22 50.0	12 60.0	60 55.6	58 65.9	29 72.5	7 35.0	154 57.5
17	N •		31 64.6	22 50.0	10 50.0	34 56.7	28 61.4	13 65.0	65 60.2	50 56.8	23 57.5	12 60.0	150 5 6.0
18	N %		26 54.2	23 52.3	13 65.0	30 50.0	27 61.4	12 60.0	56 51.9	50 56.8	25 62.5	7 35.0	138 .51.5
19	N &		25 52.1	26 59.1	14 70.0	41 68.3	28 61.4	15 75.0	66 61.1	54 61.4	29 72.5	9 45.0	158 59.0
20	N *		18 37.5	20 45.5	11 55.0	28 46. 7	21 47.7	12 60.0	46 42.6	41 46.6	23 57.5	11 55.0	121 45.1
21	N •		19 59.6	21 47.7	13 65.0	31 51.7	21 47.7	11 55.0	50 46. 3	42 47.7	24 60.0	9 4 5.0	125 4 6.6
22	N		23 47.9	23 52.3	13 65.0	36 60.0	30 68.2	14 70.0	59 54.6	53 60.2	27 67.5	10 50.0	149 55.6
23	N		21 43.8	23 52.3	9 4 5.0	31 51.7	22 50.0	12 60.0	52 48.1	45 51.1	21 52.5	-	118 47.6(*)
30	N		13 27.1	22 50.0	8 40.0	35 58.3	29 65.9	18 90.0	48 44.4	51 58.0	26 65.0	7 35.0	132 49.3
GRO		N	327 48.7	344 55.8	172 62.3	472 56.2	367 59. 6	190 67.9	799 52.8	711 57.7	362 64.6	124 51.7	1996 53.770

^(*) Adjusted. Absent from duty during Cooking Skills evaluation.

ICI GROUP Cycle 2--19 August COMPOSITE RATINGS SUMMARY by Tasks

Selection Sele			SM	K	SMALL QUANTE	TITY (TY COOKING	<u>5</u>		S	SEL	MO	TITY	SHALL QUANTITY BAKING		SKILLS		TOTALS	S
A 4 - 6 - 18 10 5 9 6 - 11 11 B 7 6 25 13 11 8 - 11 5 0 A 7 9 7 6 25 13 11 8 - 11 5 0 A 7 7 5 24 12 9 3 8 - 12 9 7 A 7 6 23 12 9 3 8 6 12 9 12		deJ	bala2	đn os	Entre	Medetable	Procedures	Confidence	Biscuits	sullim.		Omelet			Coutigence	COOKING Skills	TOTAL	n Celenda	МЕУИ
7 9 7 6 25 13 11 8 - 11 5 0 7 7 5 5 24 12 9 3 8 - 7 12 <t< td=""><td>1</td><td>~</td><td>•</td><td>4</td><td>9</td><td>•</td><td>18</td><td>01</td><td>'n</td><td>σ</td><td>9</td><td>1</td><td>п</td><td></td><td>11 6</td><td>2</td><td>131</td><td>88</td><td>2.3</td></t<>	1	~	•	4	9	•	18	01	'n	σ	9	1	п		11 6	2	131	88	2.3
7 7 5 5 24 12 9 3 8 - -	74	<	7	σ	7	9	25	13	#	æ	ı	7	S		12	1	137	29	2.3
7 7 5 5 24 12 9 3 8 - 12 7 5 3 7 6 23 12 0 5 - 7 12 12 6 - 9 3 12 0 5 - 3 8 6 11 6 - 9 3 12 9 6 9 - 7 8 10 12 9 3 4 26 13 16 11 6 - 9 11 10 12 9 3 4 26 15 3 6 9 11 10 6 6 5 20 13 12 6 1 1 1 1 6 8 5 8 18 10 1 4 1 1 1 1 1 1 1	m	Ø	•	1	1	1	•		•	ı	ı	1	•	•	1	9	9	S	1.2
7 8 8 10 27 12 12 5 - 7 12 10	•	<	7	7	ĸ	S	24	12	o	m	00	1	77	7 26	3 13		150	29	2.4
5 3 7 6 23 12 0 5 - 3 8 6 7 7 7 7 5 23 11 3 7 - 7 8 10 1 6 - 9 3 12 12 9 6 9 - 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 8 7 - 9 11 10 8 7 - 9 11 11 7 7 4 - 7 7 4 - 11 11 11 11 11 11 11 12 8 8 10 11 9 11 11 9 11 11 9 11 11 9 11 11 9 11 11 11 11	ស	4	7	œ	•	9	27	12	12	S		7	12	12 26	97 8	1	164	29	2.8
6 - 9 3 12 9 6 9 - 7 7 7 6 - 9 3 12 9 6 9 - 7 7 12 9 3 4 26 13 16 11 6 - 9 11 10 9 6 6 5 20 13 6 - 9 11 10 8 6 7 4 5 20 13 6 - 6 11 10 8 6 8 5 8 18 10 7 4 - 11 11 8 6 10 9 31 19 8 7 - 6 11 9 102 8 6 10 9 31 19 8 7 - 11 9 4 102	φ	~	v	6	7	9	23	12	0	N.	ı	m	00	:	11 0	97	118	3	1.8
12 9 3 32 12 9 6 9 - 7 8 7 7 8 7 7 8 7 7 8 8 7 7 8 8 8 8 7 8 8	7	~	7	7	1	ហ	23	11	m	7	ı	7	∞		1	1	133	29	2.3
12 9 3 4 26 15 3 6 - 9 11 10 8 9 6 6 5 20 13 5 9 - 9 11 10 8 6 7 4 5 29 10 12 6 - 6 11 11 6 8 9 30 15 6 7 - 6 11 7 8 6 10 9 31 19 8 7 - 6 11 12 9 4 5 6 25 12 8 7 - 6 11 7 102 8 6 10 9 31 19 8 7 - 11 9 102 8 10 8 10 8 10 8 10 8 10 8 10	6 0	~	9	ı	σ	m	32	12	o	9	σ	1	~	7 35	18	ជ	158	19	7.6
12 9 3 4 26 15 3 6 - 7 10 8 6 6 6 5 20 13 5 9 - 9 8 7 6 8 7 4 5 29 10 12 6 - 6 11 11 1 6 8 9 30 15 6 7 - 6 11 17 8 6 10 9 31 19 8 7 - 6 11 19 9 4 5 6 25 12 8 8 7 - 11 9 102 8 97 45 45 45 45 45 45 45 45 45 45 11	•	<	7	9	7	9	33	91	7	9		•	Ħ		11 1	7	165	3	7.6
6 6 6 5 20 13 5 9 - 9 8 7 6 8 5 8 18 10 7 4 - 11 11 6 6 8 9 30 15 6 7 - 6 11 12 8 6 10 9 31 19 8 7 - 8 10 8 102 8 9 34 15 8 8 7 - 11 9 45 8 9 34 73 146 125 45 12 45 45 12 45 12 45 45 12 13 13 13 13 13 13 13 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13	91	•	12	Φ.	m	4	5 6	12	6	9	ı	1	2		17	•	150	29	2.5
6 7 4 5 29 10 12 6 6 11	77		0	9	9	5	70	13	2	•	ı	Φ	®	7	17	9	154	3	2.4
6 8 5 8 18 10 7 7 4 - 11 7 6 6 8 9 30 15 6 7 - 6 11 12 1 5 4 5 6 25 12 8 7 - 8 10 8 102 86 97 87 384 192 109 99 34 73 146 125 4 45 39 45 42 165 75 45 45 1 1 9	22	•	9	7	•	S	53	2	77	9	ı	9	1		16	•	155	29	7.6
6 6 8 9 30 15 6 7 6 11 12 8 6 10 9 31 19 8 7 - 8 10 8 10 5 6 25 12 8 8 7 - 11 9 102 86 97 87 384 192 109 99 34 73 146 125 4 45 39 45 42 165 75 45 45 45 45 15	3 6	•	9	00	ĸ	œ	81	2	7	7	4	١.	11	7 26	77	co	139	3	2.2
8 6 10 9 31 19 8 7 - 8 10 8 1 5 4 5 6 25 12 8 8 7 - 11 9 1 102 86 97 46 192 109 99 34 73 146 125 4 4 5 9 45 42 165 75 45 45 15 30 45 45 1	27	•	9	9	®	σ.	8	15	9	~	•	9	11		31 35	60	174	3	2.7
102 86 97 87 384 192 109 99 34 73 146 125 45 39 45 42 165 75 45 45 15 30 45 45	58	•	®	9	91	•	33	13	3	_	•	6	2		91 :	17	177	2	2.8
. 102 86 97 .87 384 192 109 99 34 73 146 125 45 39 45 42 165 75 45 45 15 30 45 45	82		5	•	8	9	25	77	6		7	١, إ	#	•	13	7	144	2	2.3
45 39 45 42 165 75 45 45 15 30 45 45	TOTA		ł	98	1	67	384	192	891	66	1				777	36	2245		
	RITERION	*		39	45	42	165	75	45	\$		8	45		75	8		926	
3 2.6 2.4 2.3 2.3 2.4 3.2 2.8	3			2.		1.1	2.3	2.6			M			7	1 2.9	1.9			2.424

SELF-PACED GROUP Cycle 2--19 August COMPOSITE RATINGS Summary by Tasks

		5	N.	COUNT	LITY	COOKING	<u>9</u>		Š	SEL	CUANT	T.L	SMALL QUANTITY BAKING			SKILLS		TOTALS	5
student	Lab	peres	gond	E ufre	Vegetable	Procedures	Confidence	Biscuits	Muffins	French Toast	Omelet	Саке	Excepting	Procedures	Confidence	Skills Skills	TATOT	N CELLEBION	MEYN
9	m	9	=	9	80	34	15	7	6	9	,	6	9	28	15	1	160	29	2.7
=	ø	9	m	7	თ	13	01	7	9	7	3	6	7	31	12	12	145	64	2.3
12	A	12	9	9	9	23	12	6	œ	77	ı	9	7	34	19	15	175	99	2.7
13	M	1	9	9	m	31	11	9	œ	í	7	D	7	21	13	17	154	19	2.5
**	ø	9	S	9	S,	21	2	m	m	'n	00		1	. 52	77	6 9	117	19	1.9
15	m	7	æ	00	7	36	17	7	σ	m	1	7	6	22	12	7	154	9	2.4
11	<	7	©	7	σ	22	07	ю	m	ı	9	11	11	13	12	12	720	49	2.3
18	<	2	ı	ß	ជ	23	13	Ŋ	m	7	ı	6	9	27	12	7	138	19	2.3
19	<	9	©	S	9	5 6	14	•	S	œ	-	12 1	7	28	15	6	158	2	2.5
20	<	•	00	7	m	20	Ħ	0	9	ŧ	7	00	7	21	77	11	121	19	2.0
21	<	•	ı	σ	9	21	13	•	S	2	1	9	9	21	11	6	125	19	2.0
22	<	•	7	ø	ø	23	13	9	0	7	ı	7	7	30	14	10	149	4	2.3
23	<	m	1	0	O)	23	0	m	· œ	9	ı	20	9	22	77	ı	118	35	2.1
30		'	6	٥	4	22	80	•	80	6	.	8	9	8	81	7	132	2	2.1
2	TOTAL	n	12	93	92	344	172	89	8	8	28 109	(% 7e	367 1	061	124	1996		
CRITERION	×	33	33	42	42	154	69	42	42	33	12 3	39 3	39 1.	154	2	9		964	
X	MENN	2.2	2.2 2.2 2.2		2.2	2.2	2.5	1.6 2	2.1 2	2.4.2.3	.3 2.8	~	5 2	2.4 2	2.7	2.1			2.310

PREQUENCY OF RATING SCORES

Cycle 2 -- 19 August

Completion Tasks -- Food Items Small Quantity Cooking and Baking

	FOOD ITEM		IC	I GR	OUP		RATINGS	S	KLF-	PACED	GR	
	FUOU LTEM	0	. 1	2	3	4		0	1	2	3	4
1	Potato Salad Waldorf Salad	0	3	10	1	1		0	3	6	1	1
2	Vegetable Soup Mulligatawny Soup	0	2	9	2	0		0	4	5	2	0
3	Baked Macaroni and Cheese Chicken Fried Steak	0	5	8	2	0		0	2	10	2	0
4	French Fried Onion Rings Cauliflower Au Gratin	o ·	6	5	3	0		0	4	6	4	0
5	Baking Powder Biscuits	1	4	4	4	2		1	7	5	1	0
6	Plain Muffins	0	3	10	2	0		0	5	6	3	0
7	French Toast	0	1	3	1	0		0	2	6	2	1
8	Plain Omelet	0	1	6	. 3	0		0	ø	4	0	Q
9	Chocolate Cake	. 0	1	4	8	2		0	0	7	5	1
LO	Butter Cream Frosting	1	0	7	5	2		0	0	10	2	1
	TOTAL	3	26	66	31	7		1	27	65	22	4
	PERCENT OF TOTAL	1.5	19.7	50.0	23.5	5.3		8.0	22.7	54.6	18.5	3.4

KEY TO RATING SCORES

^{0 -} Not present (not done).

^{1 -} Present (done) but not minimally acceptable.

^{2 -} Present (done) but only minimally acceptable (NALP).3 - Present (done) above NALP.

^{4.-} Present (done) at desired level for given conditions (DLP).

PREQUENCY OF RATING SCORES Cycle 2 -- 19 August

Completion Tasks -- Food Items Small Quantity Cooking and Baking

CREATION		I	CI G	ROUP		PATINGS	s	ELF	-PAC	ED GE	OUP
CRITERION	0	1	2	3	4		0	1	2	3	4
CRITERION 1Taste/Flavor	2	11	50	51	18		1	19	48	46	5
CRITERION 2Appearance	2	20	59	37	14		1	21	61	27	9
CRITERION 3Texture/Consistance	y 2	21	53	37	19		1	24	50	35	9
TOTAL	s 6	52	162	125	51		3	64	159	108	23
PERCENT OF TOTAL	F 2.1	13.1	40.9	31.6	12.9		9.0	17.9	44.5	30.3	₹.9

STUDENT ACHIEVEMENT Completion Tasks -- Food Items (Based on ratings average of all criteria for each item prepared.)

ICI GROUP	SELF-PACED GROUP
(Based on 132 items prepared)	(Based on 119 items prepared)
7 (5.3%) prepared at DLP	4 (3.4%) prepared at DLP
97 (73.5%) prepared at or above MALP	87 (73.1%) prepared at or above MALP
28 (21.2%) prepared below MALP (nogo)	28 (23.5%) prepared below MALP (nogo)

KEY TO RATING SCORES

- 0 Not present (not done).
- 1 Present (done) but not minimally acceptable.
- 2 Present (done) but only minimally acceptable (MALP).
- 3 Present (done) above MALP.
- 4 Present (done) at desired level for given conditions (DLP).

FREQUENCY OF RATING SCORES Cycle 2 -- 19 August

Procedures Small Quantity Cooking and Baking

		I	CI G	ROUP		PATINGS	8	ELF	-PACI	ED GE	
CRITERION	0	1	2	3	4		0	1	2	3	4
CRITERION 1Washed Hands.	1	0	8	12	9		0	1	6	14	7
CRITERION 2Read complete recipe.	0	3	10	13	4		0	4	11	12	1
CRITERION 3Checked equip- ment to be used.	0	1	13	15	1		. 1	3	11	11	2
CRITERION 4Assembled all needed utensils.	0	2	13	12	3		0	2	11	12	3
CRITERION 5Assembled all needed ingredients.	0	2	13	12	3		0	1	13	12	2
CRITERION 6Followed the recipe procedures.	0	4	18	8	0		0	10	10	8	0
CRITERION 7Used proper sanitation and safety proced.	0	9	12	8	1		1	8	14	5	0
CRITERION 8Prepared food item without waste.	2	2	8	15	3		0	2	12	12	2
CRITERION 9Performed each cooking skill properly.	1	8	12	9	0		0	8	10	10	0
CRITERION 10Used "clean as you go" procedures.	0	4	16	10	0		1	6	15	5	1
CRITERION 11Cleaned self/ utensils/work area after completion of task.	1	5	10	13	1		1	4	14	8	1
TOTALS	5	40	133	127	25		4	49	127	109	19
PERCENT OF TOTAL	1.5	12.1	40.3	38.5	7.6		1.3	15.9	41.2	35.4	6.2

STUDENT ACHIEVEMENT Procedures

(Based on ratings average of all criteria for each student observation.)

(Based on 30 student observations)	(Based on 29 student observations)
0 (0.04) performed at DLP	0 (0.0%) performed at DLP
25 (83.34) performed at or above MALP.	25 (86.2%) performed at or above MALP
5 (16.74) performed below MALP (nogo)	4 (13.8%) performed below MALP (nogo)

FREQUENCY OF RATING SCORES Cycle 2 -- 19 August

Confidence/Attitude Indicators Small Quantity Cooking and Baking

		IC	I GF	OUP		Patings	s	RLF-	PACE	D GB	OUP
CRITERION	0	1	2	3	4		0	1	2	3	4
CRITERION 1Proceeded with the task without false starts or trial/error activity.	0	2	8	16	4		0	2	10	14	2
CRITERION 2Attended to own actions and did not look to others for help or guidance.	0	2	6	19	3		0	1	9	14	4
CRITERION 3Stayed focused on the task and did not create or participate in irrelevant conversation or activity.	0	2	7	15	6		0	1	6	19	2
CRITERION 4When difficulties arose, remained "cool under fire" and took actions to overcome them.	0	0	11	17	2		0	0	12	15	1
CRITERION 5Showed concern for quality by checking results of actions as he/she progressed through the preparation tasks.	0	5	7	16	2	****	0	7	8	9	3
TOTALS	0	11	39	83	17		0	11	45	71	12
PERCENT OF TOTAL	0.0	7.3	26.0	53.3	11.3		0.0	7.9	32.4	51.1	8.6

STUDENT ACHIEVEMENT Confidence/Attitude Indicators (Based on ratings average of all criteria for each student observation.)

ICI GROUP	SELF-PACED GROUP.
(Based on 30 student observations	(Based on 28 student observations)
0 (0.0%) performed at DLP	0 (0.0%) performed at DLP
30 (100%) performed at or above MALP	27 (96.4%) performed at or above MALP
0 (0.0%) performed below MALP (nogo)	1 (3.6%) performed below MALP (nogo)

FREQUENCY OF RATING SCORES Cycle 2 -- 19 August

Cooking Skills

ADTENOTAL:	. =	IC	I GR	OUP		RATINGS	8	ELP-	PACEI	GR	OUI
CRITERION	0	1	2	3	4		0	1	2	3	4
CRITERION 1Finely shredded fresh cabbage.	0	3	5	2	0		0	0	10	1	1
CRITERION 2Diced fresh sweet papper (1/2 inch).	0	5	3	. 2	0		0	2	8	1	
CRITERION 3Sliced fresh pared cucumber (1/8 inch).	0	4	3	3	0		1	1	5	4	:
CRITERION 4Cutting tomato wedges (8).	0	0	7	2	1		0	5	4	2	•
CRITERION 5Making a brown roux.	2	3	4	0	1	 	2	1	7	1	
TOTALS	2	15	22	9	2		3	9	34	9	
PERCENT OF TOTAL	4.0	30.0	44.0	18.0	4.0		5.0	15.0	56.7	15.0	ď

STUDENT ACHIEVEMENT

Cooking Skills

(Based on ratings average of all criteria for each student observation.)

/=		١.	A	observa	-4
(Based	on .	10	atuaent	observa	Clone

0 (.0.0%) performed at DLP

5 (50.04) performed at or above MALP

5 (50.0%) performed below MALP (nogo)

(Based on 12 student observations)

0 (0.0%) performed at DLP

6 (50.0%) performed at or above MALP

6 (50.0%) performed below MALP (nogo)

FREQUENCY OF RAW SCORES Recipe Conversion

NUMBER CORRECT	r ICI GROUP	SELF-PACED GROUP	
0	3	1	
ì	2	ī	
2	ī	0	
3	1	1	
4	ī	0	
5	0	ì	
6	0	2	
7	0	2	
8	2	2	
9	0	0	
10	1	0	
11	0	0	
12	1	2	
13	0	1	
14	2	0	
15	0	1	
16	0	0	
17	2	0	
18	0	0	
19	0	0	

STUDENT ACHIEVEMENT

Recipe Conversion (Based on number of items correct.)

ICI GROUP (Based on 16 student tested)	SELF-PACED GROUP (Based on 14 students tested)
7 (43.8%) got 0-3 answers correct	3 (21.4%) got 0-3 answers correct
1 (6.3%) got 4-7 answers correct	5 (35.7%) got 4-7 answers correct
3 (18.8%) got 8-11 answers correct	2 (14.3%) got 8-11 answers correct
3 (18.8%) got 12-15 answers correct	4 (28.6%) got 12-15 answers correct
2 (12.5%) got 15-19 answers correct	0 (0.0%) got 15-19 answers correct

FREQUENCY OF RATING SCORES

Garrison Equipment (Based on average ratings for each equipment item.)

equipment item		IC	I GR	OUP		ratings	s	RLP-I	PACEI	GR(OUP
EQUIFMENT ITEM	0	1	2	3	4		0	1	2	3	4
Milk Dispenser	0	0	3	2	0		0	1	2	0	0
Hobart Mixer	0	0	2	2	1		0	2	1	0	0
Coffee Urn	0	2	2	0	0		2	1	0	0	0
Meat Slicer	0	2	1	0	0		1	2	0	0	0
Deep Fat Fryer	0	2	1	0	0		1	1	0	0	0
Convection Oven	0	1	2	0	0		0	3	2	0	0
Ice Cream Machine	0	0	2	0	0		1	4	0	0	0
Gas Griddle	0	0	6	0	0		0	0	3	0	0
TOTALS	. 0	7	19	4	1		5	14	8	0	0
PERCENT OF TOTAL	0.0	22.6	61.3	12.9	3.2		18.5	51.9	29.6	0.0	C

Garrison Equipment (Based on individual ratings for each equipment item.)

polithian tack		I	CI G	ROUP		ratings	S	ELF.	-Pace	d Gr	oup
EQUIPMENT ITEM	0	1	2	3	4		0	1	2	3	4
Milk Dispenser	0	1	13	34	27		0	14	21	10	0
Hobart Mixer	0	2	21	16	36		2	6	33	4	0
Coffee Urn	2	18	34	6	0	1	16	25	4	0	0
Meat Slicer	0	10	27	8	0		2	31	12	0	0
Deep Fat Fryer	0	11	25	9	0	J	4	16	0	0	0
Convection Oven	0	0	18	26	1		0	14	55	6	0
Ice Cream Machine	0	4	14	9	3	3	2	39	17	7	Q
Gas Griddle	0	1	25	64	0		0	0	20	25	0
TOTALS	2	47	177	172	67		16	145	162	52	0
PERCENT OF TOTAL	•	10.0	38.1	37.0	14.4	,	11:4	35.8	0.0	12.8	0.0

STUDENT ACHIEVEMENT

(Based on ratings average of all criteria for each student observation.)

ICI GROUP (Based on 31 student observations)	SELF-PACED GROUP (Based on 27 student observations)
1 (3.2%) performed at DLP	0 (0.0%) performed at DLP
24 (77.4%) performed at or above MALP	8 (29.6%) performed at or above MALP
6 (19.4%) performed below MALP (nogo)	19 (70.4%) performed below MALP (nogo)

FREQUENCY OF RATING SCORES Garrison Equipment

CRITERION		I	CI G	ROUP		ratings	9	ELF	-PACE	O GE	OUP
CRITERION	0	1	2	3	4		0	1	2	3	4
CRITERION 1Checked equipment before starting to operate it.	0	1	12	15	3		1	9	13	4	0
CRITERION 2Explained purpose for checking.	0	1	10	16	4		1	8	13	5	0
CRITERION 3Observed all safety precautions before operating.	0	4	10	11	6		2	8	11	6	0
CRITERION 4Explained importance of safety precautions.	0	1	12	12	6		2	7	11	7	0
CRITERION 5Took the proper actions to start the equipment.	0	2	15	9	5		4	10	12	1	0
CRITERION 6Took the proper actions to operate the equipment.	0	3	16	7	5		5	9	12	1	0
CRITERION 7Explained starting and operating procedures.	0	3	11	13	4		3	13	9	2	0
CRITERION 8Took the proper actions to stop the operation.	0	1	14	11	5		4	13	8	2	0
CRITERION 9Explained procedure for stopping the operation.	0	1	16	10	4		2	10	12	2	O
CRITERION 10Took proper actions to disassemble for cleaning.	1	4	9	13	4		1	14	8	4	0
CRITERION 11 Explained dis- assembling procedure.	1	4	8	13	5		4	8	10	5	0
CRITERION 12Took proper actions to clean equipment.	0	6	12	10	3		5	8	10	4	0
CRITERION 13Explained clean- ing procedure.	0	7	9	12	3		5	9	10	3	0
CRITERION 14Took proper actions to assemble equipment.	. 0	5	11	10	5		3	10	11	3	0
CRITERION 15Explained assem- bling procedure.	0	4	12	10	5		3	9	12	3	0
TOTALS	2	47	177	172	67		46	145	162	52	0
PERCENT OF TOTAL	4.0	10.1	38.1	17.0	14.4		1.4	35.8	0.0	12.8	0.0

KEY TO RATING SCORES

^{0 -} Did not do

^{1 -} Did but not minimally acceptable

^{2 -} Did at minimum acceptable level of performance (MALP).

^{3 -} Did above MALP but not to desired level.

^{4 -} Did at desired level of performance for given conditions (DLP).

ICI GROUP
Cycle 2--19 August
COMPLETION TASK RATINGS
Small Quantity Cooking

STUDENT NUMBER		7	٣	4	က	9	7	8	0	91	24	25	76	27	28	29			
LAB ASSIGNENT	۲ ·	~	Ø	~	~	4	•	4	~	Ø	83	E	æ	æ	49 .	.	TOTAL	z	MEAN
Criterion 1 2 3	464	m 70 70		1 m n	m ~ ~	ечч	0 0 M	000	m n n	444	60 60	246	222	700	8 8 8	212	34	15 15 25	2.5 2.1 2.3
SALAD TOTAL		7	•	~	~	2	-	ا ہ	7	77	6	او	9	9	8	S.	102	45	2.3
Criterion 1	' ' '	000		66-	m 72 m		m 01 0	111	644		000	2 4 4	m 04 m	000	222	124	31 29 26	ដ្ឋ	4.60
SOUP TOTAL	1 '	6	'	-	8	۳	7		9	6	و	_	_{&}	ا و	و		86	39	2.2
Criterion 1 2 3 ENTRE TOTAL	0 0 0 0	222	1 1 1 1.	2 7 2	m n m	616	2 8 8 12	m m m a	7 8 9 5	m	0 10 10	- N - 4	2 7 7 1	8 3 3 3	m 4 0	2 4 2 5	33 31 33 97	स स स	2.2
Criterion 1 2 2 3 3 VEGETABLE TOTAL		2 1 1 9		994	E 4 E O	0 000	224 2		0 000	7 7 7	2 4 4 8	2 4 4 8	m 44 m 00	m m m o	m m m	0 222	31 29 27 87	222 2	2.2 2.1 1.9 2.1
TOTAL CRITERION N	1.7	27 7 2.4		2 22 %	33 12 2.6	21 12 12 1.8	26 2.2	118	26 2.2	28 12 12 2.3	26 2	22 22 12 12 12 13 2	27 2	29 3	33 2	20 12 1.7	372	171	2.175

SELF-PACED GROUP Cycle 2--19 August COMPLETION TASK RATINGS Small Quantity Cooking

1

									ļ	1								
STUDENT NUMBER -	ł	ន	Ħ	12	13	14	15	17	18	19	20	21	22	23	30	TOTAL	z	MEAN
LAB ASSICAMENT	ı	4	a	æ	8	æ	æ	~	*	4	*	K	~	•	B			
Criterion 1		~	~	4	١,	7	۳	7	~	۳	1	7	7	-	•	25	7	2.3
8		~	~	4	ı	7	~	7	4	7	ŧ	7	-	-	•	24	#	2.5
m	•	7	7	4	٠	7	7	m	m	-	١	-	٦	٦	•	22	=	2.0
SALAD TOTAL		9	9	12	٠	9	7	7	ខ្ម	9	,	4	4	е		1,1	33	2.2
Criterion 1		m		~	6		-	m	1	m	7	,	7		1	22	=	2.0
7		4	-	7	m	~	-	~		~	m	ı	7		-	23	#	2.1
8	•	4	-	7	m	7	-			-	m	•	-	•	1	26	7	2.4
SOUP TOTAL		п	е	9	6	2	6	80	•	8	8	,	~	•	3	11	33	2.2
Criterion 1	1.	7	7	7	7	2	8	~	~	7	12	m	1	6	2	30	7	2.1
2		~	~	7	7	7	~	m	m	7	m	m	-	m	7	32	7	2.3
•	•	~	m	7	7	7	m	7	7	4	7	2	m	6	2	31	14	2.2
ENTRE TOTAL		9	7	9	٥	9	8	~	Z.	2	7	6	٥	6	9	93	42	2.2
Criterion 1		4	m	7	-	6	12	m	~	7	-	7	7	m	-	32	7	2.3
7		7	m	7	~	~	m	٣	4	~	~	7	~	m	7	8	14	2.1
æ	•	7		7	ᆌ	귀	7	е	4	7	-	7	8	m	1	30	괴	2.1
VEGETABLE TOTAL		8	6	٥	6	S.	-	6	#	٥	m	٥	•	6	4	92	45	2.2
TOTAL		E E	25	8	18	75	25	31	78	25	81	61	23	12	13	327		
CRITERION N		12	12	12	6	12	12	12	o	12	σ	0	12	0	6	-	150	
N. S.		2.6 2.1	2.1	2.5	2.0	1.8	2.1	2.6	2.9	2.1	2.0	2.1	1.9	2.3	1.4			2.180

ICI GROUP
Cycle 2-19 August
PROCEDURES RATINGS
Small Quantity Cooking

STUDENT NUMBER	-	7	m	4	2	٥	-	80	0	93	24	25	76	27	78	29			
LAB ASSIGNMENT	<	~	ø	<	~	~	4	<	4	Ф	A	4	A	Д	m	ø	TOTAL	z	MEAN
Criterion 1	0	m	1	m	~	-	4	~	4	m	7	7	~	7	4	4	43	51	2.9
7	~	~	•	-	m	7	7	4	m	m	~	m	~	~	m	m	37	51	2.5
•	7	~	•	~	m	7	7	m	7	m	8	m	~	~	•	m	35	315	2.3
*	8	~	1	~	m	7	-	. CO	m	4	~	~	~	m	m	m	%	15	2.4
6	6	~	1	7	8	m	-	m	m	7	~	m	~	4	~	~	36	15	2.4
9	-	-	t	7	7	1	~	m	•	~	-	m	~	7	~	7	30	15	2.0
7	-	~	•	-	Ģ	74	m	~	m	m	~	٦	-	m	4	7	32	15	2.1
60	m	m		m	7	~	8	m	m	m	~	٣	0	m	m	~	37	15	2.5
6	-	-	ŧ	8	7	~	~	~	m	~	0	٣	~	7	m	7	28	15	1.9
10	7	'n	ŀ	m	7	-	m	~	m	7	7	m	-	m	m	7	35	15	2.3
п	7	e			6	7	7	е	m	0	9	က	7	4	7	7	35	15	2.3
TOTAL	81	25	,	24	27	23	23	32	33	56	20	29	18	8	31	35	384		
CRITERION N	11	11	ı	1	77	7	11	11	11	11	11	11	11	11	==	11	•	165	
MEAN	1.6 2	2.3	•	2.2	2.5	2.1	2.1	2.9	3.0	2.4	1.8	2.6	1.6	2.7	2.8	2.3			2.327

SELF-PACED GROUP Cycle 2--19 August PROCEDURES RATINGS Small Quantity Cooking

STUDENT NUMBER =	1	9	==	12	13	14	15	11	18	19	20	77	22	23	30		;	1
LAB ASSIGNMENT		æ	4	æ	m	æ	æ	~	€	«	æ	~	~	K	B	TOTAL	z	MEAN
Criterion 1		~	~	7	4	M	m	е	m	м	m	4	4	4	7	41	7	2.9
		~	7	8	7	7	4	-	7	m	7	7	m	~	7	31	74	2.2
•		7	7	7	4	0	4	7	-	m	~	7	7	~	~	53	7	2.1
4		4	7	~	m	7	4	~	-	7	~	~	~	m	7	33	14	2.3
S		4	7	7	m	8	٣	7	~	~	~	Ħ	m	~	m	33	7	2.4
9		٣	~	7	7	-	m	<u>,</u>	-	m	~	7	~	~	8	36	74	1.9
7		m	~	~	m	7	m	0	m	~	~	7	-	~	~	27	14	1.9
•		m	7	~	•	7	4	m	m	7	m	7	~	7	m	37	14	5.6
•		m	~	7	7	7	m	~	-	-	~	7	~	7	m	27	7	1.9
10		4	-	7	m	7	~	m	m	7	7	-	0	7	7	28	7	2.0
11		•	7	е	-	9	۳	9	m	м	7	7	7	7	0	33	14	2.4
TOTAL		34	19	23	31	21	36	22	23	26	20	21	23	23	22	344		
CRITERION N		7	11	11	77	11	7	11	7	11	77	17	11	7	11		154	
MEAN		3.1	1.7	2.1	8.8	1.9	3.3	2.0	2.1	2.4	1.8	1.9	2.1	2.1	2.0			2.234

ICI GROUP
Cycle 2--19 August
CONFIDENCE/ATTITUDE INDICATOR RATINGS
Small Quantity Cooking

STUDENT NUMBER -		-	7	m	4	'n	9	7	80	6	91	24	25	56	27	28	29	,		
LAB ASSIGNENT -	•	<	<	m	~	<	K	<	<	<	4 0	æ	æ	A	4	æ	В	TOTAL	z	MEAN
Criterion 1		7	m		7	8	м	m	۳	м	٣	Э	7	7	m	4	٦	0	15	2.7
8		-4	m	1	-	m	m	~	7	4	٣	e	m	~	m	4	m	4	15	2.7
•		m	m	•	m	8	7	7	-	m	4	m	~	~	•	4	m	40	15	2.7
•		m	•	1	m	m	~	7	m	m	m	7	7	~	m	m	7	39	15	5.6
2		7	7	ı	3	1	7	2	٣	m	7	7	7	~	m	4	m	33	15	2.2
TOTAL		10 1	13	ı	12	12	12	11	12	16	15	13	10	91	22	19	12	192	1	
CRITERION N		\$	S	•	5	Ŋ	S	2	5	2	2	2	Ŋ	S	S	S	Ŋ		75	
HEAN		2.0 2	5.6	ı	2.4	2.4	2.4	2.2	2.4	3.2	3.0	2.6	2.0	2.0	3.0	3.8	2.4			2.560

SELF-PACED GROUP Cycle 2--19 August

CONFIDENCE/ATTITUDE INDICATOR RATINGS Small Quantity Cooking

K	STUDENT NUMBER = 10	ļ	1	77	-			l		19					30	TOTAL	z	MEAN	
LAB ASSIGNMENT =		m	m	m	a	m	m	<	<	<	×	<	<	<	a		İ		1
Criterion 1		м	7	7	m	-	m	7	m	m	7	7	m	-	8	32	7	2.3	
~		e	7	٣	4	7	4	н	m	m	~	m	~	~	7	37	14	5.6	
m		٣	7	m	4	m	٣	м	m	m	m	m	m	7	-	33	14	2.8	
4		m	7	7	m	~	m	м	m	, m	٣	7	~	7	m	37	14	5.6	
'n		٣	7	7	m	8	4	-	~	~	-	m	7	7	•	27	13	2.1	
TOTAL		15	ន	12	17	10 . 17		10 13		14	11	13	13	6	8	172			
CRITERION N		S	2	15	5	5	2	Ŋ	Ŋ	ß	ın.	'n	2	5			69		
MEAN		3.0		2.0 2.4 3.4 2.0 3.4 2.0 2.6 2.8 2.2 2.6 2.6 1.8 2.0	3.4	2.0	3.4	2.0	2.6	2.8	2.2	2.6	2.6	1.8	2.0			2.493	

ICI GROUP Cycle 2--19 August

COMPLETION TASK RATINGS Small Quantity Baking

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		$\ $																	
Criterion 1	m	~	ŧ	-	7	7	7	8	~	~	~	~	 m	···	···	35	15	7	m
3	M	M	•	~	~	7	~	7	~	7	~	7		~	~		15	7	٠,
, M	M	m	•	~	~	~	e	~	~	~	<u>س</u>	7	7	2	2	3 33	15	2.	-2
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Criterion 1	•	4	1	,	~	-	7	•	m	7	۳	7	,	~		- 24	2		4
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OPELET TOTAL	•	7	ŀ	,	7	3	7		6	7	6	9		9		73	R	7	•
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Criterion 1	₩	~	ı	4	4	~	m	~	m	m	m	4	-	m	··	3 48	15	m	ų
7	m	-	•	4	4	m	~	~	4	4	7	m	, E	-	~		15	m	4
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PROBILING TOTAL	듸		$ \cdot $	7	72	1	2	H	2	8	7 1	7	7 12		8	125	\$	7	8
TOTAL	2	35	١.	33	8	22	35	88	5	34	38	9	36 42	7	5	989			
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	2.8		1	2.6	3.2	1.5	2.3 2	N)	3.1	2.3 2	5	.12	4	8 2	7 2.	0		~	2.604
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SELF-PACED GROUP Cycle 2--19 August

COMPLETION TASK RATINGS Small Quantity Baking

- 1	2	17	12	133	1	15 1	- 1	ł	19 2	~	~	17	"		TOTAL	2	MEAN	1
LAB ASSIGNMENT =	m	m	m			m		4	1	4				8				l
Criterion 1	8	m	m	~	-	ന	_	7		0	٠,	~	``	~	25	7	1.8	
7	~	7	m	7	-	~	_		_	·'		7	~	H	21	7	1.5	
m	m	~	M	~	-	7	ı	7		0	ا			-	22	14	1.6	
BISCUITS TOTAL	-	-	6	او	m	7	m	5			4	اوا	3 ,		89	42	1.6	
CRITERION	m	1 ~	m	m	-	m	-					1		_	32	7	2.3	Ì
7	m	~	~	m	_	m	-	_				7		m	29	74	•	
) M	m	7	М	7	-	3	1	7	4	2	7	ł	7	2	29	77	2.1	
MUPPINS TOTAL	6	9	8	8	9	6	3	3				6		6	8	42	•	
Criterion 1	7	m	4		~	-	,	7	3					_	28	=	2.5	
7	8	7	4	1	٦	-	•	7	N	1		~	~	æ	75	7	2.3	
M	7	7	4	•	2	7	,	9	3						27	=	2.4	
PRENCH TOAST TOTAL	9	7	12	٠	2	6		7	8	01					8	33	2.4	١
					,		,								,	•		١
Criterion 1	•	ı	1	7	~)		7		ı	•	•				ָ ת	7 '		
2	1	1	1	m	7	1	7		1	, W					01	4	2.5	
m	١	•	•	7	-	,	7	,		7					6	4	2.3	
CHELET TOTAL		4	.	7	œ		و			-					88	2	• 1	
T defreshoo 1	۳	~	1	-	,	-	_	m	4						9 2	1	2.8	
2	m	M	. ~	m	ı	~	4	· M	•					. ~	*	=======================================	2.6	
ım	m	m	~	m	ı	7	4	3	4	3	7		3	3	39	13	3.0	
CAKE TOTAL	6	6	و	6	,	H	11	9 1	7			7	1	3	109	39	2.8	
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CITEBLION 1	4 6	4 17	n (2 0	ı ı) M) A	, N		· ·		· · ·	1 (1 N	2 2	3 5	7.5	
I M	· (4)	~	~	~	1	•	4		4					~	æ	13		
PROSTING TOTAL		1	1	-	.	1 1	77]]							97	2	2.5	
TOTAL	37	36	42	37	19	35	34 3	30	41 2	28 31	98	31	35		472] 	
CRITERION N	15	15	15	15	12	15 1	15 1	15 1	15 1	15 15	5 15	5 15	7	S		207		
MEAN	2.5	2.4	2.8	2.5	1.3	2.3	2.3 2	.02	.7 1	.9 2.	1 2.	4 2.	.1 2	m,			2.280	_

ICI GROUP Cycle 2--19 August PROCEDURES RATINGS Small Quantity Baking

STUDENT NUMBER		-	7	9	4	2	9	7	ھ	6	91	24	25	92	27	28	59			
LAB ASSIGNMENT		4	~	В	4	4	4	<	~	€.	æ	æ	æ	ra	Ø	æ	80,	TOTAL	z	MEAN
Criterion 1		9	m	,	3	æ	2	7	7	2	6	4	4	4	4	m	m	45	15	3.0
8		ю	7		4	m	-	7	~	-	m	4	m	m	4	ო	m	41	15	2.7
æ		m	7		•	٣	7	m	7	7	m	m	m	~	m	٣	e	41	15	2.7
4		~	7	ı	7	7	7	m	.4	~	m	m		7	4	m	m	40	15	2.7
ĸ		٣	7	1	7	~	7	m	4	7	m	m	m	7	4	٣	m	4	15	2.7
•		m	7		~	7	7	-	7	7	m	m	m	7	m	7	~	34	15	2.3
7		7	е		m	m	7	~	~	7	-	~	7	7	-	-	-	29	15	1.9
60		m	-		8	m	-	7	4	0	4	m	m	m	4	m	8	38	15	2.5
6		_	-		7	~	-1	~	m	-	m	m	m	~	m	7	~	31	15	2.1
70		~	7	•	m	~	7	7	~	~	7	m	~	~	~	-	-	33	51	2.1
11		3	e		-	3	7	7	7	7	7	9	m	7	3	7	7	33	15	2.2
TOTAL		28 2	6	,	78	28	19	24	53	18	30	34	32	26	35	25	24	403		
CRITERION N	-	11 1	-	7	11		=	=======================================	=	11	11	77	=	=	a	77	77	-7	165	
MCAN	4	2.5 2	1.	``	2.5	2.5	1.7	2.2	2.6	1.6	2.7	3.1	2.9	2.4	3.2	2.3	2.2			2.442

SELF-PACED GROUP Cycle 2--19 August PROCEDURES RATINGS Small Quantity Baking

STUDENT NUMBER	•	ន	Ħ	21	ដ	7	15	17	81	61	8	21	22	23	30			
LAB ASSIGNERT		æ	æ	æ	a	M	Ø	æ	<	~	<	¥	4	<	В	TOTAL	Z	MEAN
Criterion 1		-	•	•	m	۳	<u>س</u>	٣	۳	٣	е	7	7	7	e e	42	14	3.0
2		m	m	m	m	m	m	m	7	٣	-	7	٣	-	m	35	14	2.5
C		~	~	m	m	m	m	m	m	m	m	~	٣	~	m [']	37	14	5.6
•		m	7	m	m	m	m	4	m	m	m		m	7	e	40	14	5.9
15		m	m	m	m	m	m	4	7	7	7	7	m	7	m	38	14	2.7
9		~	m	Ю	7	~	7	8	~	m	7	7	m	~	m	28	14	2.0
7		~	7	m	7	7	H	7	~	7	-	7	~	7	-	24	14	1.7
80		7	m	m	-	m	7	~	E	m	~	7	m	4	m	35	14	2.5
6		~	m	m	~	~	-	7	m	m	-	7	m	m	m	31	14	2.2
10		7	m	m	7	7	-	7	-	7	7	п	7	7	7	27	14	1.9
11		е	٣	6	7	7	7	7	m	7	7	2	е	2	2	30	14	2.1
TOTAL		28	31	34	21	25	22	28	27.	28	21	21	30	22	29	367		
CHITERION N		11	11	11	11	7	11	11	7	11	11	11	11	77	11	7	154	
HEAN		2.5	2.8	3.1	1.9	2.3	2.0	2.5	2.5	2.5	1.9	1.9	2.7	2.0	2.6	!		2.383

ICI GROUP Cycle 2--19 August

CONFIDENCE/ATTITUDE INDICATOR RATINGS Small Quantity Baking

STUDENT NUMBER =	 - -	N 4	ო <u>'</u> დ	4 4	s ≪	9 <	r &	∞ ∢	_ o •	16 2 B	24 2 B	25 2 B	26 2 B	27 2 B	28 B	29 B	TOTAL	z	MEAN
- de jace d'ac	1	-	,	,	1	,	-	4	_	-	4	4	-	-	-	-	1	%	2.8
CILCULTUM 1	, ,	, 4	•	, m	, m	. 7) M	, w	, m	, 4	י מ	י ה	, m	m	ו ה	י ה	4 3	12	2.8
m	-	~	•	m	4	m	е	4	m	4	м	9	a	േ	4	r	4 5	16	3.0
4	m	~	ι	~	4	7	~	•	~	m	۳	m	е	m	٣	e	42	15	2.8
ស	m	m	ŧ	ю	m	7	m	60	7	٣	4	e	m	۳	8	-	42	15	2.8
TOTAL	=	17	١,	13	92	=	12	81	l a	2	12	16 1	41	15 1	197	13	214		
CRITERION N	S	S	ŧ	v	S	S	S	S)	. \$	5	S	, in	2	2	Ŋ	2		75	
MEAN	2.2	2.4	ı	5.6	3.2	2.2	2.6 3.2 2.2 2.8 3.6 2.2 3.4	9.	. 2	1.4 3	3.4 3	.2	3.2 2.8 3.0 3.2	.0 3	.2	2.6		,	2.853

SELF-PACED GROUP
Cycle 2--19 August
CONFIDENCE/ATTITUDE INDICATOR RATINGS
Small Quantity Baking

STUDENT NUMBER = 10	Ä	• •	11 12	13	13 14	15	17	18	19	70	21	22	23	30			
LAB ASSIGNMENT		B	8 8	m	m	m	en l	«	<	~	~	4	K	В	TOTAL	Z	MEAN
Criterion 1	•	•	4	m	m	٣	٣	m	m	7	7	ю	7	8	04	14	2.9
7	•••	···	2	М	m	m	e	7	٣	m	~	٣	7	4	40	14	2.9
8	•	~	3	m	m	m	m	7	m	m	m	7	m	4	39	14	2.8
	.,	m	4	æ	7	7	7	~	m	7	7	m	7	٣	36	14	2.6
5	.,		3 4	7	7	~	8	٣	٣	7	8	m	٣	4	35	14	2.5
TOTAL	ä	2 1	12 19	13	12	12	13	12	15	27	=	14	15	18	190		
CRITERION N		10	5	S	Ŋ	2	70	S	2	Ŋ	S	S	Ŋ	Ŋ		2	
MEAN	e,	3.0 2.	2.4 3.8 2.6 2.4 2.4 2.6 2.4 3.0 2.4 2.2 2.8 2.4	8 2.(5 2.4	1 2.4	2.6	2.4	3.0	2.4	2.2	2.8		3.6			2.714

ICI GROUP
Cycle 2--19 August
COOKING SKILLS RATINGS

STUDENT NUMBER -	-	7	m	4	Ŋ	9	7	æ	6	16	24	25 2	26	27	28	29		,	
LAB ASSICNMENT -	<	•	æ	4	4	4	~	<	<	æ	a	В	æ	B	_m	83	TOTAL	2	EM
Criterion 1	3	ì	7	•	1	7	1	7	m		ત	ı	-	~	7	-	61	97	1.9
2	7	ı	7	1	•	М	•	ч	7		7		~	-	m	~	17	10	1.7
m	8	1	Ħ	ı	1	٣	1	7	m	•	-	ı	-	7	m	-	19	97	1.9
•	m	ŧ	7	1	1	7	1	~	4	ı	7	1	~	7	7	7	24	9	2.4
ι Ω	7	1	0	•	4	0	ı	4	7	1	4	•	-	-	7	7	15	01	1.5
TOTAL	12	١.	9	١.	,	ន	,	7	14	ı	9	,	8	8	21	7	96		
CRITERION N	S	t	2	1	ı	S	1	Ŋ	S	ı	S		S	9	9	S		20	
MEAN	2.4	ı	1.2	ı	1	2.0	•	2.2	2.8	1	1.2	1	1.6 1	1.6	2.4	1.4			1.880

SELF-PACED GROUP
Cycle 2--19 August
COOKING SKILLS RATINGS

												ı	ľ					
STUDENT NUMBER - 10	•	9	า	11 12	13	14	15	11	18	13	20	21	22	23	30		;	į
LAB ASSICNMENT		M	æ	Ø	æ	Ø	m	æ	4	~	«	<	K	~	В	TOTAL	Z.	MEAN
Criterion 1			~	~	4	7	~	7	~	3	7	7	7	,	2	27	77	2.3
73		•	7	~	4	7	-	٣	-	~	7	7	8	1	7	25	77	2.1
m		•	m	٣	4	0	-	٣	~	7	m	~	7	1	7	27	7	2.3
4		ı	m	4	m	~	-	н	-	7	8	-	~	ı	1	23	12	1.9
ហ		ı	7	4	~	~	8	m	7	0	7	7	7	1	0	22	12	1.8
TOTAL			12	12 15	13	8	7	77	~	6	=	6	ន		7	124		
CRITERION N		ı	S	'n	S	S	2	2	ĸ	Ŋ	ល	Ŋ	5	•	S		9	
MEAN		ŧ	2.4	3.0	3.4	1.6	1.4	2.4	1.4	1.8	2.4 3.0 3.4 1.6 1.4 2.4 1.4 1.8 2.8 1.8 2.0	1.8	2.0	- 11.4	1.4			2.067

ICI GROUP
Cycle 2--19 August
COMPLETION TASK RATINGS
Garrison Equipment

Student Equipment	 ٦ ۲	۵ م	m <u>M</u>	4	A H	9 0	BE	ю ч	6 K	16 B	8 24	25 A H	9 H D H	27 F C	87 gg	70 H
1 46	33	2 3	1	3 3	4 4	2 2 3	3 2	44	44	2.0	3 2		. m m	22	3 1	2 4
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uo uo	۳ ص		7 7	٦ ٣	4 2		4 3	4 2	4 3		4 1	3			3 2	
o LT	7	3 1		7	4 2		4 3	4 2	4		4 1	7 3				
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00 T.Z	3			٠ ٢	4		-	4	7		4 1	3				
				l M	4 3			4 2	4 2							
91	е В			٦ ٦	4		9 9	4 1	43		4				1 2	
11	М			r m		1 2	4	4	4 3		_	ю С			1 2	
12	2 2			+	е В	7 7	4 2	4 1	е В		3 7				7 7	
13	2			e e	8	7 7	4 W	4 1								
7	E			۱ ۳	43	2 3	4 3	4 1	4 3							
15	3 3	-		٦ ٣	4 2	2 3	4 3	4 7	4 3		4 1					
TOTAL	45	8£ 7£	96	0 SÞ	0)	3¢ 50	6£ 9\$	53 60	77 75	30	ST SS	0 7	45 54	36 36	32 32	39 8£
HEAN	8.5 8.5	2.5 2.5	9.5 0.5	0.6	6.5 7.5	۲.1 ٤.5	7.5 9.5	5°1	9.6 7.2	7°7	۷°٤ ۲°۵	6°8	9°1	8°1	£*3	9.5 2.5
		: 1	; (; (
PERCENT OF POSSIBLE	0.07 0.07	6. £3 5.59	0.8 3 0.02	0°SL	۲.36 ۲.39	E.E.	E.E6 0.20	0 . 00. E . 8E	0.0e 6.8a	0.02 5.52	0°57 87°1	E.ET 7.88	0.0 1 0.07	0°5) 4°95	58.3 6.54	0.2a 6.5a
	2	5	69	45	8	8	95	83	95	62	2	2	8	19	19	12
	2.8			3.0	3.3	2.0	3.2	2.8	3.2	2.1	2.3	2.8		2.0	2.0	
PERCENT	70.0	62.5	57	75.0	81.7	50.0	79.2	69.2	79.2	51.7	58.3	70.0	55.0	50.8	50.8	64.2
			0 0	EQUIPMENT	Œ							ä	I GROU	ICI GROUP SURBARY		RATINGS
		Milk Disp	Dispenser	,		Deep Fat Pryer	Pryer					2	Total			1185
		Hober	Hobart Mixer Coffee Urn		r Con		ection Oven Cress Machine	e q				₹ å	Mean		•	2.548

SELF-PACED GROUP Cycle 2--19 August

COMPLETION TASK RATINGS Garrison Equipment

Ctudent		9	11	12	13	14	15	17	91	19	20	21	22	23	8
Equipment	•	() 	9 K	M M	H	9 0	C	A H	D G	N C	3 8	р н	н. ф	O M	U N
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63									_					-	
О			2 1						_				7		
o t o															
ת															
12									-						
13		7	2 2						_				7		
77			7												
5 t			T T			_									
•	}														
TOTAL		33 32	53 57	72 53	₹ \$£	72 74	32 8	30 30	9 57	78 50	7 2	37	34	ر 62	30
MEAN		5°T 1°T	7°2 7°4	0°T 5°T	£.5 7.5	0°0	2°7	2.5	₽°0	7°7	T.0	7°2	ε.2	6°T	2.0
PERCENT OF POSSIBLE		7.14 7.14	0.2£ 7.34	38.3 25.0	5.82 5.83	23.3	2 3 °3	7.13 0.02	0.0£	6.64 0.06	9°T 0°S▶	33°3	۷.8٤	48°3	5.8£
TOTAL	1	1.6	49	38	76	29	1.3	67	27 0.9	44	28	57 1.9	34 2.3	36	53
PERCENT		39.2	40.8	31.6	63.3	24.2	33.3	55.8	22.5	36.7	23.3	47.5	26.7	% 0.	•

equipment key

E - Deep Fat Fryer	F = Convection Oven	G = Ice Cream Machine	H = Gas Griddle
H			D = Meat Slicer

PATINGS	625 1.5 4 3 38.6
GROUP	of Possible
SELF-PACED GROUP SUMMARY	Total Mean Percent

Garrison Equipment Composite Ratings on Equipment

SELF-PACED GROUP Cycle 2--19 August

Cycle 2-19 August

Cycle 2-19 August Garrison Equipment Composite Ratings on Equipment

1									}								
Juepnis	Dørdenser Ht Tk	муктра Муктра	Coffee Uxn	Heat Sitoer	Eryer Deep Fat	OASU COUASCETOU	Ice Cream	Griddle	Student	DŢabeuser. WŢŢĶ	Machine Mixing	Coffee Urn	Meat Slicer	Deep Fat.	Consection	Ice Cream	Griddle
 	2		١.		1	•	١.	42	្ន	٠	٠	•	'	•	25	22	'
~	,	ſ		38	•	•	37	ı	11	777	1	ı	ı	•	١	58	1
M		1	9	1	•	39	•	•	12	ı	23	1	1	15	•	1	•
•		•	1	•	1	45	•	ı	13	35	•	ı	•	1	•	1	1
	8	1	•	1	1	•	•	40	14	1	ı	•	14	1	•	15	•
•		•	,	92		•	34		15	1	1	c o	•	•	32	1	•
7	•	26	•	ı	39	ı	•	•	17	30	•	ı	1	•	•	•	37
•	•	8	ı	1	23	ı		1	18	1	1	1	21	•	•	9	•
•	3	•	•		١.	1	•	41	19	1	•	18	ı	1	5 6	•	•
16	1	8	32	1	ı	•	•	t	20	•	27	•	•	-	•	•	•
*	•	55	15	1	•	•	ı	ı	21	1	•	ı	20	•	•	•	37
25	1	•	1	•	•	1	•	9	22	t	34	,1	•	ı	•	•	ı
38	•	•	ı	77	1	•	•	42	23	•	ı	7	•	1	53	•	•
27		•	27	•	•	34	•	•	9	1	•	1	ſ	1	8	23	ı
82		35	•	1	%	•	ı	•									
&	2	•	•	•	•	•	•	88	İ								
TOTAL	237	236	104	8	88	118	11	243		8	\$	33	55	16	142	46	115
CRITERION N	75	75	8	\$	45	\$	9	6		\$	\$	45	45	8	75	75	45
	3.2	3.1	1.7	2.0	2.0	5.6	2.4	2.7		1.9	1.9	0.7	1.2	0.5	1.9	1.3	2.6
PERCENT OF POSSINGS	9.0	78.7	43.3	6.8	48.9	65.6	59.2	67.5		47.8		18.3	30.6	13.3		31.3	63.9

ICI GROUP

Garrison Equipment Composite Ratings on Criteria

SELF-PACED GROUP Cycle 2--19 August

		S 1			•					st	978:	•	•1		•
Student	Check Equipment	Precention Safety	Start-Oper	Stop Equipment	Disessembl Equipment	Clean Equipment	Heassamble Equipment	Student	Check Equipment	Safety Precaution	Start-Open	gots family family	Disassembl Equipment	Clean Equipment	Reassemble Equipment
I ⊷	T T	77	16	12	12	6	21	01	80	7	07	s	9	9	S
7	7	13	71	ឧ	7	σ	1	77	œ	σ	Φ	iυ	7	00	4
M	6	co	77	<u>6</u> .	2	0	01	21	4	7	6	9	9	9	9
•	9	9	œ	9	9	7	9	13	11	12	12	80	12	2	7
5	7	7	19	7	12	17	12	14	9	'n	Ŋ	4	4	m	~
9	•		12	&	ø	9	91	15	∞	9	9	S	S	4	ဖ
7	ន	12	20	13	13	13	14	17	80	#	14	6	7	9	o
•	12	77	17	12	2	9	97	18	S	S	4	4	m	~	4
•	13	엵	61	12	7	13	14	19	80	7	7	9	9	4	9
16	ន	ដ	12	Φ	6	9	∞	20	4	4	9	4	4	7	4
72	2	0	15	2	œ	œ	01	21	9	σ	ន	7	Φ	œ	σ
25	7	13	16	9	12	9	11	22	4	9	9	4	'n	S	4
26	ន	21	13	0	œ	œ	\(\pi \)	23	9	9	4	4	•	S	7
72	2	co	11	•	0	7	co	9	2	σ	o	'n	Φ	9	9
28	6.	0	21	80	Ģ	7	7								
29	11	11	7	12	11	11	7	1							
		166	226	191	166	146	156		8	9	5	75	0	Ş	6
TOTAL	107	997	6.5	101	3	-	3		2	0	7	2	3	2	2
CHITERION H	62	62	93	62	62	. 62	62		54	3	81	54	54	\$	54
HENE	2.7	2.7	2.5	5.6	2.5	2.3	2.5		1.8	1.8	1.4	1.4	1.6	1.4	1.5
PERCENT OF	67.3	6.99	63.2	64.9	65.9	58.5	62.5		_	45.4		34.7	39.4	36.1	38.4
POSSIBLE											ļ				

ICI GROUP Cycle 2--19 August

SELF-PACED GROUP Cycle 2--19 August

		Student	Items Correct	Percent	Student	Items Correct	Percent
		1	4	21.1	10	6	31.6
		2	10	52.6	11	6	31.6
		3	14	73.7	12	8	42.1
		4	0	0.0	13	3 .	15.8
		5	1	5.3	14	0	0.0
		6	14	73.7	15	8	42.1
		7	3	15.8	17	7	36.8
		8	0	0.0	18	7	36.8
		9	17	89.5	19	5	26.3
		16	2	10.5	20	1	5.3
		24	8	42.1	21	12	63.2
		25	0	0.0	22	15	78.9
		26	1	5.3	23	13	68.4
		27	8	42.1	30	12	63.2
		28	17	89.5			
		29	12	63.2			
	STUDENTS	n 16	•		14		
	GROUP TOTA	I.	111			103	
PERCENT	OF POSSIBI	æ		36.5			38.7

Maximum possible score = 19 items correct

CYCLE 2 RATINGS

Reaction Surveys

.

ICI AND SELF-PACED GROUPS Cycle 2--19 August

REACTION SURVEY Task Competencies

	TASK COMPETENCY		ICI G	OUP	SELF	-PACED	GROU
	INDA CORESIDACI	N	TOTAL	MEAN	N	TOTAL	MEAN
	Read and follow recipe cards.	10	27	2.7	13	31	2.4
2.	Preapre food for proper: taste and flavor	10	26	2.6	12	32	2.7
	consistency and texture	10	24	2.4	12	30	2.5
	appearance	10	24	2.4	12	30	2.5
	garnish	10	23	2.3	12	28	2.3
	Prepare and maintain work area.	12	32	2.7	13	35	2.7
	Use sanitation and safety procedures.	12	34	2.8	13	35	2.7
	Use "clean as you go" procedures.	12	34	2.8	13	32	2.5
	Prepare food items without waste.	12	29	2.4	13	33	2.5
7.	Use a knife properly to: slice	11	29	2.6	12	33	2.8
	shred	11	26	2.4	12	28	2.3
	cube.	11	28	2.5	12	31	2.6
	dice	11	29	2.6	12	32	2.7
	chop	11	30	2.7	12	32	2.7
	mince	11	28	2.5	12	24	2.0
8.	Use procedures to: weigh dry ingredients	12	32	2.7	12	33	2.8
	measure liquid ingredients	11	30	2.7	12	33	2.8
9.	Use proper procedures for: soups	12	31	2.6	12	34	2.8
	salads	12	34	2.8	12	33	2.8
	basic sauces	10	26	2.6	12	28	2.3
0.	Prepare bakery items: quick breads	11	31	2.8	12	31	2.6
	cookies	12	34	2,8	12	34	2.8
	cakes	12	33	2.8	12	31	2.6
	rolls	. 11	32	2.9	12	33	2.8
	pies	12	22	2.8	12	31	2.6
1.	Prepare meat & other items by: baking	12	31	2.6	12	32	2.7
	roasting	11	29	2.9	12	37	2.3
	frying	12	31	2.6	12	31	2.6
	'braising	11	23	2.1	12	29	2.4
	stewing or boiling	11	26	2.4	12	26	2.2
2:	Start, operate, and maintain: mixer	12	32	2.7	12	33	2.8
	slicer	12	28	2.3	12	27	2,3
	coffee urn	12	29	2.4	12	20	1.7
	milk dispenser	12	31	2.6	12	33	2,8
	oven	12	30	2.5	12	25	2.1
	deep fat fryer	12	30	2.5	12	29	2.4
3.	Explain purpose and function of: mixer	12	29	2.4	12	28	2.3
	slicer	12	26	2.2	12		1.8
	coffee urn	12	27	2.3	12	18	1.5
	milk dispenser	12	29	2.4	12	26	2.2
	oven	12	26	2.2	12	20	1.7
	deep fat fryer	12	28	2.3	12	21	1.8
	Convert recipes.	11	24	2.2	12	27	2.3
	Ask proper questions about preparing food.	11	30	2.7	12	35	2,9
6.	Ask proper questions to operate equipment	11	30	2.7	12	37	3.1
	GROUP TOTALS	513	1308	2.549	545	1332	2.44

ICI AND SELF-PACED GROUPS Cycle 2---19 August

REACTION SURVEY The Training Program

	ASPECTS OF THE TRAINING PROGRAM	N	ICI GR		Self N	-PACED TOTAL	
1.	Before each lesson, I was told what I was going to learn and why I need to learn it.	15	54	3.6	12	38	3.2
2.	My instructor demonstrated each thing I was to learn. (*)	15	55	3.7(*)	12	31	2.6(*
3.	My instructor made sure _ understood what to do before I actually did it.	15	54	3.6	12	38	3.2
4.	I was told not only what I needed to correct but also what I was doing right.	15	47	3.1	12	37	3.1
5.	My instructor had me learn the reasons for doing things in a particular way.	15	50	3.3	12	32	2.7
6.	I was asked to explain what I was learning. (*)	15	48	3.2(*)	12	39	3.3(*
7.	During class, I was encouraged to share my ideas with other students. (*)	15	46	3.1(*)	12	26	2.2(*
8.	I was treated with respect by my instructor.	15	52	3.5	12	41	3.4
9.	Time was wasted doing nothing or doing things that did not help me learn. (0)	15	16	1.1(0)	12	22	1.8(0
10.	My instructor took the time to help me understand without "putting me down".	15	53	3.5	12	39	3.3
11.	I was able to read and understand the written material I was given.	15	50	3.3	12	39	3.3
L2.	The instruction was too fast for me to follow what was going on.	15	18	1.2	12	24	2.0
13.	The instruction was too slow and I got bored.	15	29	1.9	12	7	0.6
_	unadjusted totals	195	600	3.076	156	418	2.679
	(*) ADJUSTED TOTALS	150	451	3.006	120	322	2.683

NOTES:

^(*) Statements apply only to ICI training. Ratings not counted in adjusted total.
(@) Ratings inverted for group totals because of the way the statement is worded.

